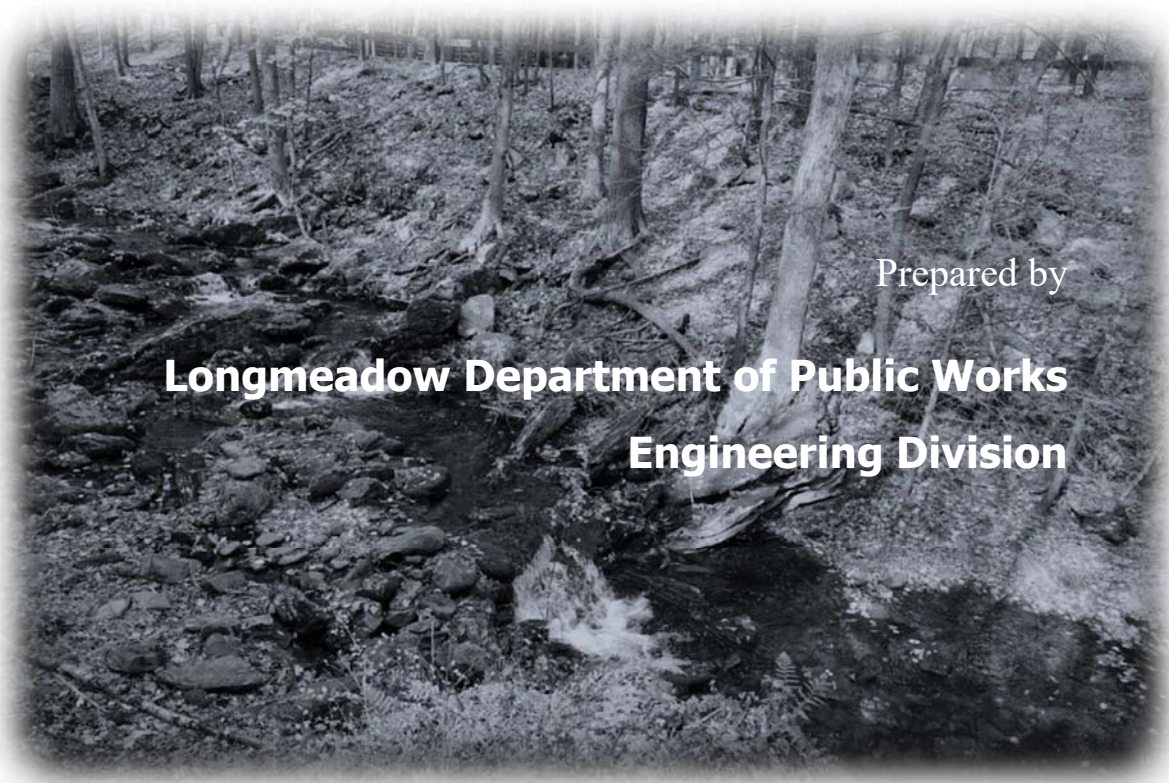


# Stormwater Management Program

Town of Longmeadow, Massachusetts  
NPDES Permit: #MAR041013

Updated: August 2020



Prepared by

**Longmeadow Department of Public Works  
Engineering Division**

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## TABLE OF CONTENTS

### Longmeadow Stormwater Management Program

<b>TABLE OF CONTENTS .....</b>	<b>i- iii</b>
<b>1.0 INTRODUCTION.....</b>	<b>1</b>
1.1 Purpose of this Plan .....	1
1.2 Regulatory Requirements .....	2
1.2.1 Overview of EPA’s NPDES MS4 Program .....	2
1.2.2 Longmeadow’s Regulated Areas.....	3
1.3 Summary of Longmeadow’s Stormwater Management Program under the 2003 Small MS4 General Permit .....	5
1.3.1 MCM 1 – Public Education and Outreach Program .....	5
1.3.2 MCM 2 – Public Involvement and Participation .....	6
1.3.3 MCM 3 – Illicit Discharge and Detection Elimination .....	6
1.3.4 MCM 4 & 5 – Construction Site Stormwater Runoff Control & Post-Construction Stormwater Management.....	7
1.3.5 MCM 6 – Pollution Prevention and Good Housekeeping .....	7
1.3.6 Additional Permit Requirements .....	8
1.4 Authorization for Longmeadow to Discharge Stormwater .....	8
1.5 Summary of Requirements of EPA’s 2016 Small MS4 General Permit.....	8
1.6 General Eligibility Determination.....	9
1.7 Special Eligibility Determinations .....	9
1.7.1 Endangered Species .....	9
1.7.2 Historic Properties .....	9
1.8 Program Implementation .....	10
<b>2.0 WATERSHED RESOURCES .....</b>	<b>11</b>
2.1 Watershed Inventory .....	11
2.2 Receiving Waters .....	11
2.3 Water Quality.....	12
2.3.1 Integrated List of Waters .....	12
2.3.2 Pollutants of Concern .....	14
2.3.3 Applicable TMDLs.....	14
<b>3.0 BMPs to ADDRESS MCMs .....</b>	<b>15</b>
3.1 MCM 1 – Public Education and Outreach.....	15
3.1.1 MCM 1 Implementation .....	16
3.1.2 MCM 1 Goals, Progress and Documentation .....	17
3.2 MCM 2 – Public Involvement and Participation .....	17
3.2.1 MCM 2 Implementation .....	18
3.2.2 MCM 2 Documentation .....	18

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3.3	MCM 3 – Illicit Discharge Detection and Elimination (IDDE) Program .....	19
3.3.1	MCM 3 Implementation .....	20
3.3.2	MCM 3 Documentation .....	20
3.4	MCM 4 – Construction Site Stormwater Runoff Control.....	21
3.4.1	MCM 4 Implementation .....	21
3.4.2	MCM 4 Documentation .....	22
3.5	MCM 5 – Post-Construction Stormwater Management.....	22
3.5.1	MCM 5 Implementation .....	23
3.5.2	MCM 5 Checklist of Key Documentation .....	23
3.6	MCM 6 – Good Housekeeping and Pollution Prevention .....	24
3.6.1	MCM 6 Implementation .....	25
3.6.2	MC6 Checklist of Key Documentation .....	25
<b>4.0</b>	<b>TMDLs, IMPAIRED WATERS AND ENHANCED BMPs.....</b>	<b>26</b>
4.1	General.....	26
4.2	TMDL for Nitrogen (Long Island Sound) .....	27
4.2.1	Enhanced BMPs .....	27
4.2.2	Other Requirements .....	27
4.3	Water Quality Limited (Longmeadow Brook, MA34-21).....	27
4.3.1	Enhanced BMPs .....	28
4.3.2	Other Requirements .....	28
<b>5.0</b>	<b>PROGRAM EVALUATION, RECORD KEEPING AND REPORTING.....</b>	<b>29</b>
5.1	Program Evaluation.....	29
5.2	Record Keeping .....	29
5.3.	Annual Reports .....	30
<b>6.0</b>	<b>CERTIFICATION.....</b>	<b>31</b>
<b>7.0</b>	<b>ACRONYMS .....</b>	<b>32</b>
<b>8.0</b>	<b>OTHER INFORMATION.....</b>	<b>34</b>
8.1	Useful Websites .....	34

## **Tables**

Table 1	Stormwater Management Program Team.....	10
Table 2	Waterbodies in Longmeadow that receives Flow from the MS4 .....	12

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## **Figures**

Figure 1	Longmeadow and Watershed Boundaries .....	1
Figure 2	Longmeadow's Urbanized Area .....	4
Figure 3	Longmeadow Drainage Subbasins .....	11
Figure 4	TMDL Status Longmeadow, MA.....	13

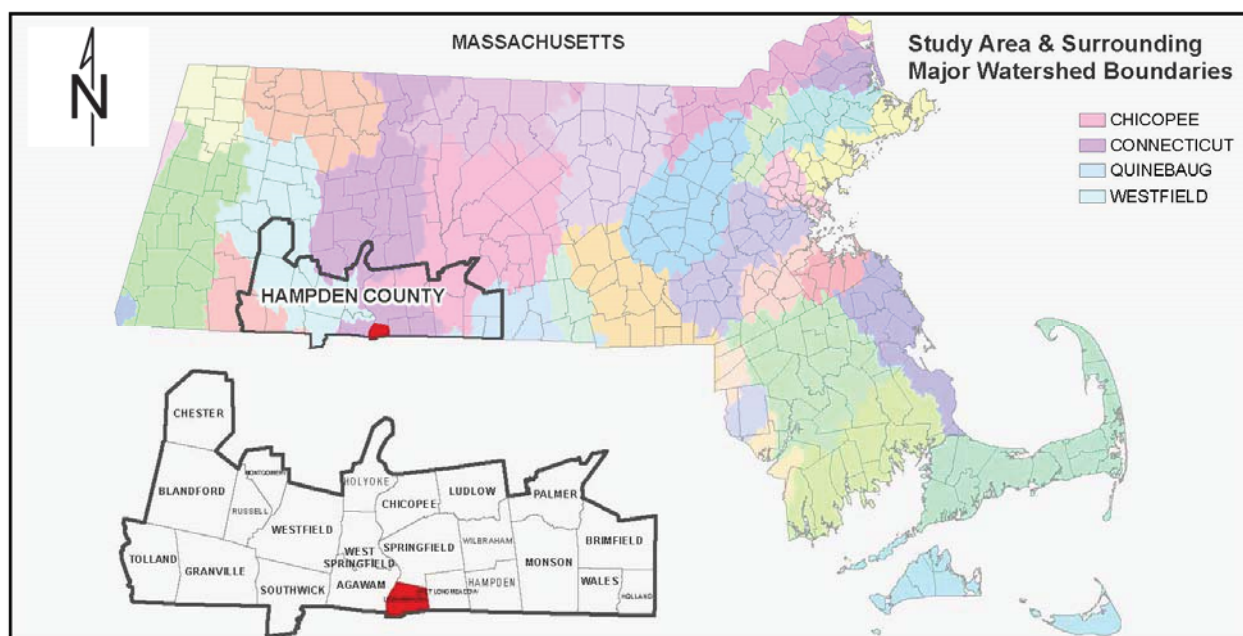
## **Appendices**

Appendix A	Notice of Intent and Authorization to Discharge Letter from EPA
Appendix B	Summary of 2003 and 2016 MS4 General Permit BMPs
Appendix C	Endangered Species Act Eligibility Criteria Documentation
Appendix D	Historic Properties Eligibility Criteria Documentation
Appendix E	Reference Documents
Appendix F	Recordkeeping
Appendix G	Plan Amendment Log
Appendix H	Delegation of Authority Documentation

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## 1.0 INTRODUCTION

Longmeadow Massachusetts is located in Hampden County and abuts the southern border of Springfield and the western border of East Longmeadow, Massachusetts. The Connecticut River forms the western boundary of the Town, and the Connecticut state line forms the southern boundary. The Town is approximately 81 miles west of Boston, Massachusetts. Longmeadow encompasses a land area of approximately 9.12 square miles and a water area of about 0.51 square miles.



**Figure 1– Longmeadow and Watershed Boundaries**

Based on information from the Pioneer Valley Planning Commission (PVPC), Longmeadow had a population of 15,585 in 2014.

### 1.1 Purpose of this Plan

In an on-going effort to minimize stormwater impacts, the Town has developed this Stormwater Management Program (SWMP). The SWMP is required by the U.S. Environmental Protection Agency's (EPA's) National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) in Massachusetts ("MA MS4 General Permit"). The SWMP describes the activities and measures that will be implemented by Longmeadow to meet the terms and conditions of the permit.

The SWMP will be updated and/or modified during the permit term as the Town's activities are modified, changed, or updated to meet permit conditions. Further discussion on regular SWMP evaluation is presented in *Section 5.1* of this document. Other requirements of MA MS4



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General Permit, such as a Notice of Intent (NOI), Authorization to Discharge letter, and documentation showing Endangered Species Act and Historic Properties eligibility criteria have been developed and are located in the Appendices of this Plan.

## 1.2 Regulatory Requirements

### 1.2.1 Overview of EPA's NPDES MS4 Program

Through the NPDES program, the EPA nationally regulates the discharge of stormwater runoff that is transported into local waterbodies via MS4s. EPA's MS4 stormwater program was enacted in two phases:

- Phase I, issued in 1990, requires medium and large cities or certain counties with populations of 100,000 or more to obtain NPDES permit coverage for their stormwater discharges.
- Phase II, issued in 1999, requires regulated small MS4s in urbanized areas, as well as small MS4s outside the urbanized areas that are designated by the permitting authority, to obtain NPDES permit coverage for their stormwater discharges.

The EPA Region 1 and the Massachusetts Department of Environmental Protection (MassDEP) jointly administer the municipal stormwater program. EPA and MassDEP originally authorized Longmeadow to discharge stormwater in 2003 under a NPDES General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems, known as the "2003 General Permit." Under this permit, the Town has developed a program to reduce the contamination of stormwater runoff.

On May 1, 2003, EPA issued Massachusetts a General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 MS4 Permit), per with the Phase II rule. The 2003 MS4 Permit remained in effect until operators became authorized under the 2016 MS4 Permit, which became effective on July 1, 2018.

This SWMP was developed to be consistent with the requirements of the 2016 Small MS4 General Permit for Massachusetts.

The reissued General Permit is more prescriptive than the 2003 General Permit, and builds upon the regulations already in place. The reissued General Permit substantially increases stormwater management requirements and mandates specific timelines for compliance. A few of the major differences for each Minimum Control Measure (MCM) are summarized in the following points:

- **Public Education and Outreach:** More specific messages required and prescriptive deadlines.
- **Public Involvement and Participation:** Public notice of the SWMP and regular public meeting to provide an opportunity for public comments are required.

- 
- **Illicit Discharge Detection and Elimination (IDDE):** Complete drainage system mapping, using outfall mapping developed per the 2003 General Permit. Add inter-connections to the outfall inventory. Delineate catchment areas and prioritize investigations. Perform dry weather screening and sampling of high priority and low priority MS4 interconnections and outfalls. Perform wet weather screening in the spring for the catchments that indicate the presence of one or more System Vulnerability Factors (SVFs). Complete catchment investigations. For impaired waters without Total Maximum Daily Loads (TMDLs), implement a multi-step approach to address the discharges including Best Management Practices (BMPs), source identification, and an evaluation of retrofit feasibility.
  - **Construction Site Stormwater Runoff Control:** If it does not already exist, add inspection and enforcement to the site plan review procedure.
  - **Stormwater Management in New Development and Redevelopment:** For new development, retain the first 1 inch of runoff from all impervious surfaces on site, or provide pollutant removal with a BMP. For redevelopment, retain the first 0.80 inches of runoff from all impervious surfaces on site or provide pollutant removal with a BMP. Offsite mitigation may be used for redevelopment projects. Evaluate local code for consistency with smart growth principles and green infrastructure.
  - **Good Housekeeping and Pollution Prevention:** Develop a program to repair and rehabilitate the MS4 infrastructure. Sweep/clean municipal streets once in the spring. Include all activities that occur at a municipal facility and potential pollutants associated with activity in the stormwater pollution prevention plan (SWPPP) for the facility.
  - **TMDLs:** Increased requirements for public outreach, street sweeping, and pollution source identification and removal.

### *1.2.2 Longmeadow's Regulated Areas*

The Town of Longmeadow meets EPA's regulatory threshold for Phase II of the MS4 program, and therefore is required to be covered under a NPDES permit for its stormwater discharges from the MS4 in its Urbanized Area. The Town of Longmeadow is charged by the EPA with operating and maintaining its MS4 to manage stormwater runoff, as well as to protect public health and safety, preserve environmental resources, and safeguard town character.

Urbanized Areas (also known as "regulated areas") are defined by the latest U.S. decennial Census. An urbanized area encompasses a densely settled territory that consists of core Census block groups or blocks that have a population of at least 1,000 people per square mile and surrounding census blocks that have an overall density of at least 500 people per square mile or are included to link outlying densely settled territory with a densely settled urban core.<sup>1</sup> According to EPA Region 1, the area covered by either the 2000 Census or the 2010 Census are regulated by EPA under the MS4 program. According to the 2000 Census Longmeadow has a population of 1732.5 people per square mile. According to the 2010 Census Longmeadow has a population of 1730.7 people per square mile.



As a result of our population densities being greater than 1000 people per square mile, Longmeadow is therefore regulated under the MS4 Permit.

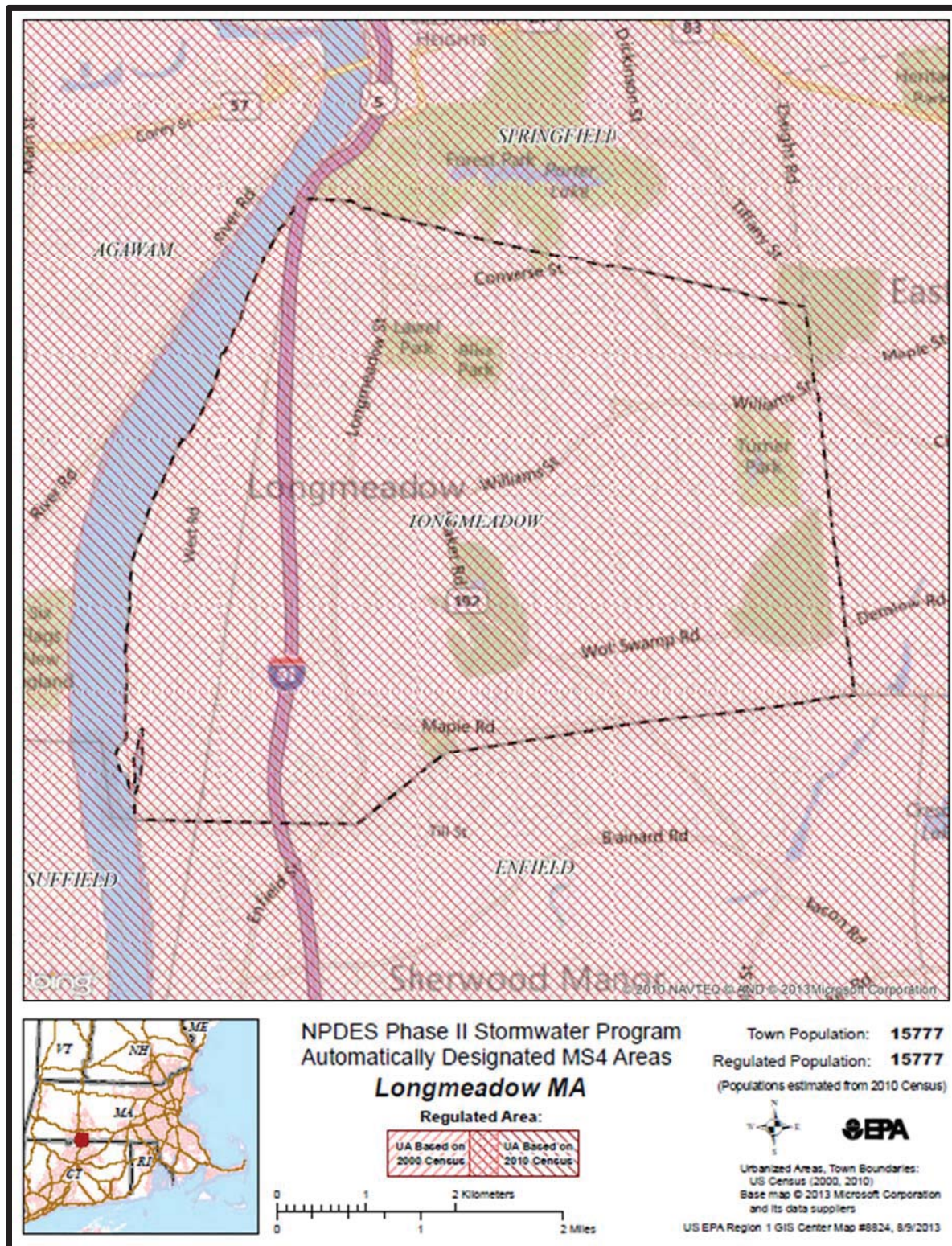


Figure 2– Longmeadow’s Urbanized Area



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### **1.3 Summary of Longmeadow's Stormwater Management Program under the 2003 Small MS4 General Permit**

Longmeadow's stormwater management program is managed within the Department of Public Works (DPW). Currently, stormwater management tasks are carried out by various Town departments and volunteer boards, Board of Health, Conservation Commission and Planning Board.

The Town of Longmeadow has achieved the measurable goals for the BMPs selected in the 2003 Notice of Intent and those added in subsequent years to reflect stormwater activities by the Town. The following paragraphs include brief descriptions of current practices the Town undertakes as part of its Stormwater Management Program.

#### *1.3.1 MCM 1 – Public Education and Outreach Program*

The Town has been able to provide a multi-media public education program related to nonpoint source pollution and stormwater management by coordinating with local and regional watershed groups including the Connecticut River Stormwater Committee.

Many educational activities are currently taking place in the Town and at the Regional level. For example, The Town set up a contract with New England Disposal Technologies (NEDT) to replace the annual Hazardous Waste Day by allowing resident to drop off hazardous materials year round that are not allowed to be disposed in the normal trash system. The Town of Longmeadow's Police Department also facilitates a year round drug drop of bin for residents to drop off any unwanted or unneeded drugs/prescriptions. The Town also has three weekends in the fall for town wide leaf pick-up, along with a year round leaf dump. Ongoing public education includes a cigarette litter campaign, pet waste litter campaign, nip bottle litter campaign, and fertilizer use campaign. Where practicable, the Town will also start marking municipally-owned catch basins with decals informing the public about discharge. Longmeadow provides written stormwater information to the general public and construction community including educational brochures and posters.

Longmeadow Community Television LCTV12 is aiding the public education and outreach campaign by broadcasting PSAs submitted by the Longmeadow DPW. In the future we may also use this platform as a way to inform the public about volunteer opportunities regarding park and stream clean up events.

The Town of Longmeadow has also created bylaws concerning pet waste. Chapter 300 of the towns General Bylaws indicates the expectations and enforcement applicability of the town in regards to the dog owners within the municipality. When a dog license is granted the town also gives the new licensee a flyer that quotes chapter 300 of the bylaw along with another pamphlet that advertises and promotes the Pick Up Poop (PUP) Pledge in order to help cut down on dog waste pollution.

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### *1.3.2 MCM 2 – Public Involvement and Participation*

The Longmeadow Stormwater Committee was formed as part of the 2003 General Permit and includes representation from the DPW, Planning Department, Conservation Commission, and Board of Health. The Town is also an active participant in the Connecticut River Stormwater Committee through PVPC.

Town staff and local citizen groups are actively involved in monitoring the water quality of Longmeadow's surface waters including lakes and ponds. We are in the process of engaging volunteers to participate in monitoring in-stream waters by helping to remove solid waste from the surface water systems and surrounding areas including bottles, trash and other solid waste through the Save-our-Stream and Save our Park programs. The local conservation commission also helps to monitor the waters located within the municipality.

As applicable, notice of public meetings complies with State and Local public meeting notice requirements and there are opportunities for residents to participate in Longmeadow's stormwater program and overall environmental stewardship. This includes educating Longmeadow Public School students about the water quality in Longmeadow. Volunteers also participate in storm drain decal installation events to educate residents about stormwater pollution.

### *1.3.3 MCM 3 – Illicit Discharge and Detection Elimination*

Longmeadow has spent considerable effort on the IDDE Program. Program highlights include the following:

- Longmeadow has developed mapping of the municipal stormwater system. The Town has met the mapping requirement of the 2003 General Permit and many of the additional 2016 Permit requirements by identifying the location of many outfalls, catch basins, manholes, and stormwater pipes within the urbanized area. This mapping is regularly updated and improved. The mapping can be viewed on the Town website at <https://www.longmeadow.org/1172/Municipal-Separate-Storm-Sewer-System-MS>.
- Longmeadow DPW Director enforces elimination of detected illicit discharges through Chapter 600 of the Bylaw governing discharges to the municipal storm drain system, 2016 updates and amendments. Inspection of illicit discharges in the Town's system is done in response to reported problems and when detected through routine outfall maintenance. When illicit discharges are detected, the source is identified and removed.
- Inspection of the Town's stormwater system is done in response to problems. Specific inspection protocol is followed when a manhole cover is lifted for both sanitary and stormwater systems. If illicit discharges are detected, the source is identified and removed. The Town completes ongoing infiltration and inflow investigations of the

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Town's sewer lines, including TV inspection and smoke testing. The Town has identified the contributing surface area for catch basins and outfalls in priority areas.

- Brochures available at Town Hall and links provided on the Town's website have raised awareness that storm drains discharge to waterbodies.

#### *1.3.4 MCM 4 & 5 – Construction Site Stormwater Runoff Control & Post-Construction Stormwater Management*

Longmeadow last reviewed the Stormwater Management By-law in 2016 at the Annual Town Meeting. The Bylaw are promulgated in Article 6, chapters 700 and 800 of the Town's General Bylaws. They address construction site runoff and post-construction management respectively for development and redevelopment within the MS4 scope. The Department of Public Works is responsible for permit review, approval, and enforcement. Regulations are planned for additional implementation details.

The Stormwater Management Bylaw is issued in conjunction with other local regulations that address construction site runoff issues through local Wetlands, Aquifer Protection, and Subdivision permitting. Town Departments, including the Board of Health, Conservation Commission, and Planning Board, work with Public Works to review proposed developments and perform inspections during construction to observe erosion controls are in place.

#### *1.3.5 MCM 6 – Pollution Prevention and Good Housekeeping*

The Town practices maintenance and good housekeeping for its municipal operations, including sweeping streets and cleaning catch basins. To reduce potential for stormwater pollution, the Town maintains vehicles inside the DPW garage and washes vehicles at approved locations. The following activities are key components of the pollution prevention program.

- Longmeadow sweeps the entire Town with a vacuum sweeper annually. The Town disposes of street sweepings and catch basin cleanings as solid waste.
- Magnesium Chloride is used by the Town during the winter months as a deicer; salt is supplemented on an as-needed basis. The Town minimized salt use by calibrating equipment and training drivers. Deicer and salt are tracked on a storm-by-storm basis. Longmeadow prepared formal Snow and Ice Control Procedures to better track and reduce salt usage.
- A goal of 20% of town-wide catch basins are cleaned by the Town each year. Drain lines are inspected as part of routine maintenance and are repaired in response to observed issues.
- The Town will prepare a Spill Prevention Control and Countermeasures Plan (SPCC) as per 40 CFR Part 112 for the new DPW facility, which is expected to open in early 2021. As appropriate, annual training for DPW employees who are involved in oil-handling practices will be provided.



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### 1.3.6 Additional Permit Requirements

**Longmeadow Wetland Regulations:** Filings made under the Wetlands Protection Act (MGL c.40, sec. 131) are also subject to the Town's local General Wetlands Bylaw (Article 2, chapter 700, Sec. 2-701). In addition, the Town has adopted regulations that are intended to supplement the requirements for wetlands filings.

The purpose of the wetland Bylaw is to protect the flood plains and wetlands of the Town of Longmeadow by controlling activities deemed to have a significant effect upon wetland values which include but are not limited to the following: public or private water supply, groundwater, flood control, erosion control, storm damage prevention, water pollution control, wildlife, recreation and threatened or endangered species. Proposed alterations of these resources should be accompanied by registered engineering data demonstrating that the alteration will not compromise the public interest.

**Record Keeping:** The Town maintains stormwater management program records and summarizes the actions taken by MCM in the annual report to EPA. See *Section 5.3* of this document.

**Water Quality Impaired Waters and Total Maximum Daily Load (TMDL) Allocations:**

Longmeadow's stormwater program is addressing many of the current requirements for discharges to impaired waterbodies. Through implementation of its current stormwater program, the Town is addressing the discharge of the pollutants of concern.

## 1.4 Authorization for Longmeadow to Discharge Stormwater

An NOI was submitted on October 4, 2018 and EPA posted it for a 30-day comment period. A copy of the NOI is included in **Appendix A**. Documentation of the Town of Longmeadow's Authorization to Discharge by EPA, issued June 4, 2019, is also provided in **Appendix A**.

The General Permit requires that this SWMP be updated and/or modified during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term.

## 1.5 Summary of Requirements of EPA's 2016 Small MS4 General Permit

The final Massachusetts Small MS4 General Permit was issued by the EPA on April 13, 2016 with an effective date of July 1, 2017. On June 29, 2017, the EPA postponed the effective date to July 1, 2018. The MassDEP also adopted this effective date.

In comparison to the 2003 Small MS4 General Permit, the 2016 Permit significantly increases stormwater management requirements and mandates specific timelines for compliance.

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*Section 1.2.1* of this SWMP provides a description of the new stormwater management requirements and mandates.

Longmeadow must modify or update the BMPs being implemented under the 2003 General Permit to meet the terms and conditions of 2016 General Permit (refer to MA MS4 General Permit§ 2.3). **Appendix B** includes a summary list of BMPs completed under the 2003 Small MS4 General Permit and BMPs included in the Notice of Intent and SWMP to meet the MA MS4 General Permit. This list identifies how the intent of each 2003 BMP is being met under the 2016 BMPs (further description of 2016 BMPs are included in *Section 3* of this SWMP).

## **1.6 General Eligibility Determination**

Section 1.2.1 of the MA MS4 General Permit authorizes the discharge of stormwater from small MS4s if the MS4 is determined to meet general eligibility criteria:

- Small MS4 within the Commonwealth of Massachusetts;
- Not a large or medium MS4 as defined in 40 CFR 122.26(b)(4) or (7); and
- Located either fully or partially within an urbanized area as determined by the 2010 Census or located in a geographic area designated by EPA as requiring a permit.

## **1.7 Special Eligibility Determinations**

### *1.7.1 Endangered Species*

The Town of Longmeadow completed the National Endangered Species Eligibility Determination screening process in accordance with Part 1.9.1 and Appendix C of the MA MS4 General Permit, and determined that the Town of Longmeadow meets Criterion C. That is, it has been determined that the Town’s stormwater discharges and discharge related activities are “not likely to adversely affect” any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service. Refer to **Appendix C** of this SWMP for supporting information, including the U.S. Fish and Wildlife Service Official Species List for the project area and the Endangered Species Act Certification.

### *1.7.2 Historic Properties*

The Town of Longmeadow completed the National Historic Preservation Act Eligibility Determination screening process in accordance with Part 1.9.2 and Appendix D of the MA MS4 General Permit and determined that the Town of Longmeadow meets Criterion A. That is, the discharges do not have the potential to cause effects on historic properties. Refer to **Appendix D** of the SWMP for supporting information, including a map of historic areas, buildings, burial grounds, objects, and structures in the Town of Longmeadow’s regulated area.

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## 1.8 Program Implementation

A Storm Water utility fee was authorized by vote at the annual Longmeadow Town Meeting held on May 10, 2017. The fee was outlined in Article 32 of the previously mentioned town meeting and the Town bylaw Section 2-606 “Stormwater Enterprise Fund.” The Stormwater Enterprise Fund is a utility and enterprise fund within the DPW to fund the maintenance of pipes, catch basins, manholes and other infrastructure related to the conveyance of stormwater runoff in the Town.

As required by §1.10.2 of the MA MS4 General Permit, the following table includes the names and titles of people responsible for program implementation. As appropriate, this information will be updated annually. (If a position is unfilled, the title of the position shall be listed and the SWMP will be modified to include the name once the position is filled.)

**Table 1 – Stormwater Management Program Team**

Department / Title	Name and Contact Information	Role / Responsibility
DPW Director	Mario Mazza 31 Pondside Road Longmeadow, MA 01106 413-567-3400 x 3201	Oversee public works operations including stormwater infrastructure.
DPW Town Engineer	Tim Keane, P.E., LSP 31 Pondside Road Longmeadow, MA 01106 413-567-3400 x 3204	Responsible for SWMP implementation, evaluation and updates, MS4 permit review including monitoring, reporting and recordkeeping.
DPW Assistant Town Engineer	Craig Markham 31 Pondside Road Longmeadow, MA 01106 413-567-3400 x 3215	Assist in SWMP implementation. Responsible for stormwater infrastructure design and maintenance
Town Manager	Lyn N. Simmons 20 Williams Street Longmeadow, MA 01106 413-565-4110	Perform duties as specified in MGLs, Town By-laws, rules and regulations.
DPW Engineering Intern	Frank Harvey 31 Pondside Road Longmeadow, MA 01106 413-567-3400	Assist with MS4 permit compliance including sampling, monitoring, reporting and inspections.
DPW Office Manager	Stephanie Dupont 31 Pondside Road Longmeadow, MA 01106 413-567-3400	Assist with MS4 permit compliance including public outreach and education.

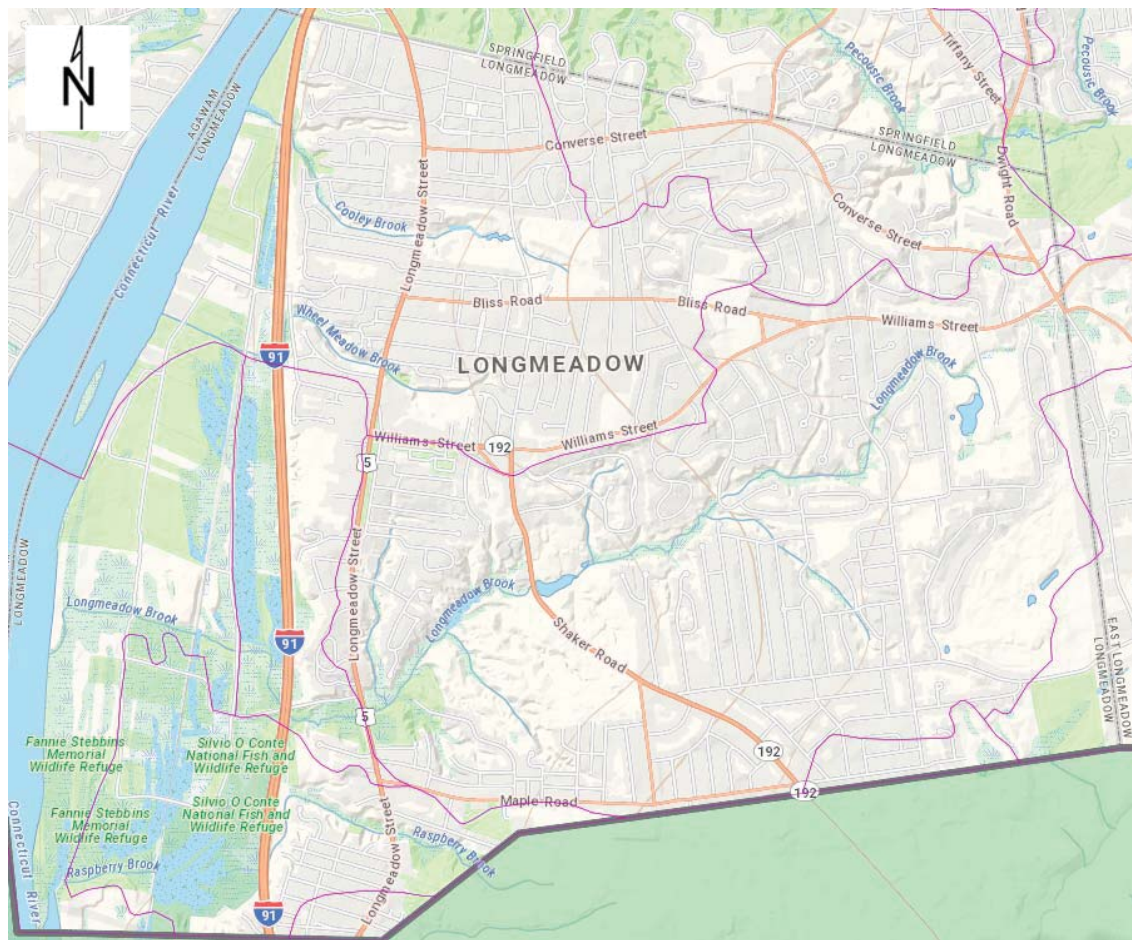


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## 2.0 WATERSHED RESOURCES

### 2.1 Watershed Inventory

The Town of Longmeadow is located within the Connecticut Watershed. Drainage subbasins are depicted herein based on data from MassGIS.



**Figure 3– Longmeadow Drainage Subbasins**

Longmeadow purchases its water from Springfield; the source of the water is the Cobble Mountain Reservoir. There are numerous wetland resources in the Town with the highest density being in the southwestern portion near the Fannie Stebbins Memorial Wildlife Refuge.

### 2.2 Receiving Waters

There are several perennial streams in Longmeadow that are tributaries to the Connecticut River. Additionally, there are several intermittent streams and waterbodies. The following listing is consistent with the Notice of Intent (NOI) for coverage under Small MS4 General Permit summarized filed by Longmeadow:

**Table 2 - Waterbodies in Longmeadow that receives Flow from the MS4**

<b>Waterbody that receives flow and segment ID if applicable</b>	<b>Number of outfalls to receiving segment</b>	<b>Additional Information</b>
Connecticut River (MA34-05)	2	
Wheelmeadow Brook	7	
Longmeadow Brook (MA34-21)	49	
Wolf Swamp Brook	11	
Tar Kiln Dingle Brook	5	
Mill Brook	10	
Intermittent to Longmeadow Brook A	4	
Intermittent to Longmeadow Brook B	1	
Intermittent to Longmeadow Brook C	4	
Raspberry Brook (MA34-22)	8	
Cooley Brook (MA34-20)	16	
Pecousic Brook	1	
Intermittent to Pecousic Brook	4	
Intermittent to Porter Lake	7	
Intermittent to Connecticut River	12	
Intermittent to Cooley Brook	5	
Tributary to Wheelmeadow Brook	1	
Tributary to Wolf Swamp Brook	1	
Waterworks Brook	1	

## **2.3 Water Quality**

### *2.3.1 Integrated List of Waters*

To meet the requirements of the Clean Water Act (CWA), Massachusetts must assess and categorize surface waterbodies for attainment of designated uses (such as habitat for aquatic wildlife, aquatic wildlife consumption, and primary and secondary recreation), as well as identify any waterbodies that are not expected to meet surface water quality standards after implementation of controls. These sources are prioritized for establishing TMDLs.

Massachusetts meets the CWA reporting requirements through the development of an Integrated List of Waters, in which waters in the Commonwealth are categorized for attainment of designated uses. The Integrated List assigns each waterbody or waterway with one of five categories:

- **Category 1:** waters that are unimpaired and not threatened for all designated uses

- **Category 2:** waters that are unimpaired for some uses and not assessed for others
- **Category 3:** waters with insufficient information to make assessments for any uses
- **Category 4a:** waters with a completed TMDL
- **Category 4c:** waters that are impaired or threatened for one or more uses, but not by a pollutant and therefore not requiring the calculation of a TMDL
- **Category 5:** waters that are impaired or threatened for one or more uses and requiring a TMDL

Waterbodies classified as Category 4a (waterbodies with a TMDL) and Category 5 ("water quality limited" waterbodies) do not meet CWA designated uses, and stormwater pollutants of concern will need to be addressed. The Small MS4 General Permit includes additional requirements for waterbodies not meeting water quality standards; these are summarized in *Section 4* of this document.

The federal Clean Water Act requires states to submit reports on the status of their water bodies every 2 years. These reports are called "Integrated Lists of Waters" (ILW). The *Massachusetts Year 2016 Integrated List of Waters* was reviewed for this Plan. The report indicates certain updates of 2019 and is understood to be the most recent list. The following information is noted with regard to the primary watercourses in Longmeadow:

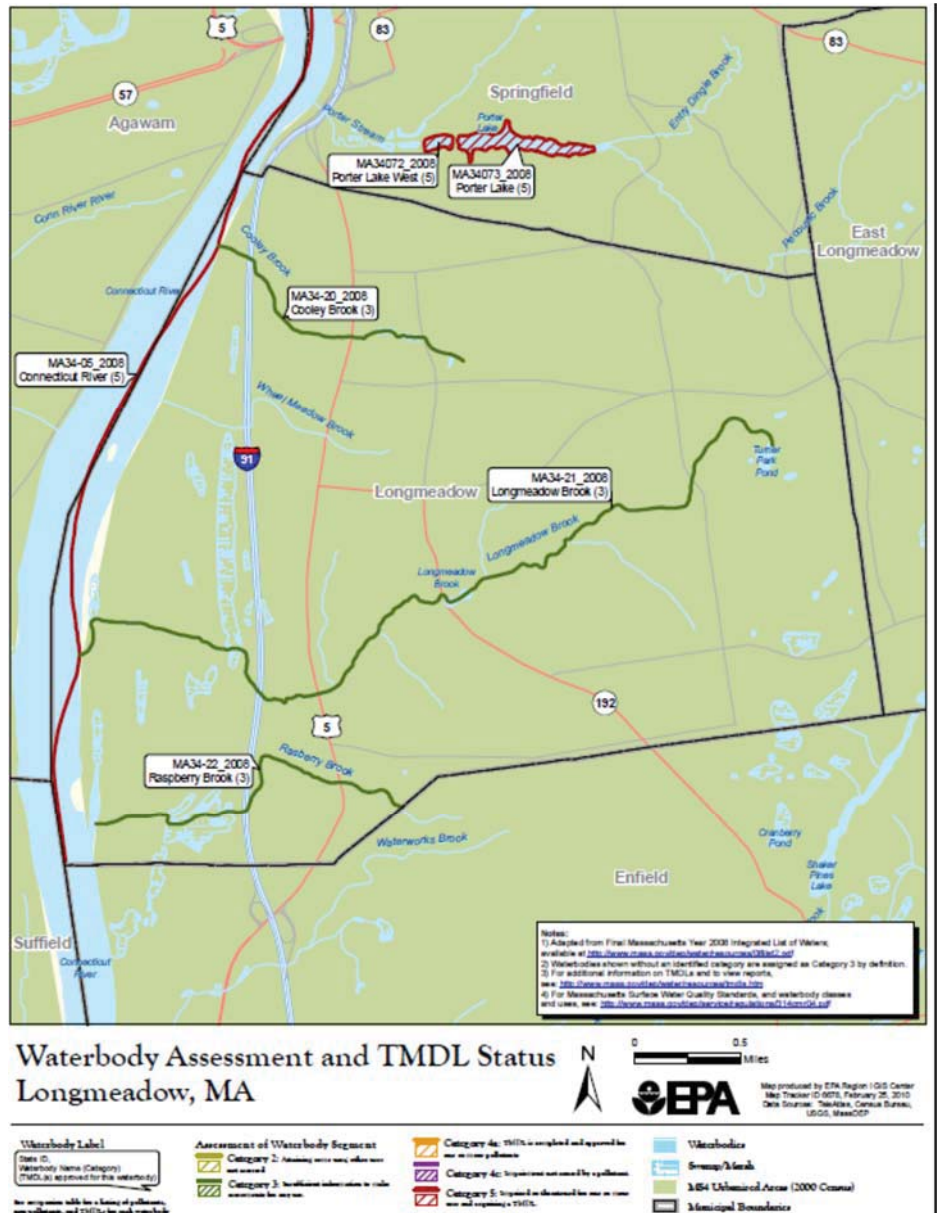


Figure 4 – TMDL Status Longmeadow, MA



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- Cooley Brook MA34-20 – Category 3 ("No uses assessed")
  - Raspberry Brook MA34-22 – Category 3 ("No uses assessed")
  - Longmeadow Brook MA34-21 – Category 5 ("Waters requiring a TMDL"). Impairments noted as debris, trash, Escherichia Coli (E. Coli), Phosphorus, Total and turbidity.

### *2.3.2 Pollutants of Concern*

Based on the 2016 Integrated List of Waters, the pollutants of concern for Longmeadow's impaired waters related to stormwater include bacteria, turbidity, and total phosphorus. More information about these pollutants and their potential sources are included in **Appendix E** of this document as reference documentation.

### *2.3.3 Applicable TMDLs*

TMDL is a calculation of the highest amount of a pollutant that a water body can take in and still meet standards for healthy systems. The federal Clean Water Act requires states to identify water bodies that do not meet these standards and develop TMDLs for them.

Water bodies identified as Category 5 (see above) are impaired or threatened for the defined uses. Total Maximum Daily Loads (TMDLs) are required for the impairment shown.

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### 3.0 BMPs to ADDRESS MCMs

As per Section 2 of the MS4 General Permit, the Town must implement a SWMP that includes the following six MCMs.

1. Public Education and Outreach
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination (IDDE)
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management
6. Pollution Prevention/Good Housekeeping

#### 3.1 MCM 1 – Public Education and Outreach

**OBJECTIVE:** Implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that pollutants in stormwater are reduced.

This section of the SWMP describes how to comply with public Involvement and participation requirements in General Permit Section 2.3.2.

BMP ID	BMP Description	Actions and Measureable Goals	Start Year of Implementation
1A	<p>Develop public education program plan (Education and Outreach Plan).</p> <p>The target audiences for Longmeadow are residents, commercial, and construction.</p>	<ul style="list-style-type: none"><li>• Develop educational messages to be distributed to target audiences, consider the topics listed in 2.3.2.d of the MS4 General Permit.</li><li>• Develop educational messages specific to the areas that discharge to priority waters, impaired waters, and drinking water supplies.</li><li>• Plan to provide educational web content and other publicly accessible resources.</li><li>• Consider needs specific to community based on language, types of businesses, etc.</li><li>• Develop methods to evaluate effectiveness of the messages and overall education program.</li></ul>	2019

BMP ID	BMP Description	Actions and Measureable Goals	Start Year of Implementation
1B	Deliver targeted/timed educational messages	<ul style="list-style-type: none"> <li>Distribute a minimum of 1 educational message to each of the target audiences (residents, commercial, construction). Topics such as dog waste, fertilizer, leaf litter.</li> <li>Post educational messages on the Town website. Maintain educational content throughout the permit term.</li> <li>Distribute a minimum of 1 additional educational message to each of the target audiences. (Ensure that messages to each audience are at least 1 year apart.)</li> </ul>	2018  (through end of PY5)
1C	Stormwater Management Webpage under DPW	<ul style="list-style-type: none"> <li>Maintain webpage to include information for the general public on relevant topics such as fertilizer usage and Stormwater and the CT River.</li> <li>DPW will update the webpage regularly with newly developed educational materials.</li> </ul>	2018 (and ongoing)

### 3.1.1 MCM 1 Implementation

Education and outreach goals for MCM 1 include:

- Set up a contract with NEDT. *Beginning July 1, 2019, Longmeadow residents can bring the items listed below to New England Disposal Technologies (NEDT) at 190 East Main Street, Westfield. This program is for Longmeadow residents only.*
- Posted video Think Blue Video on Town website, <https://www.longmeadow.org/1130/Stormwater>
- Hang up panels on high-visibility vehicles to spread awareness of the environmental impacts of cigarette butts and nip bottles.
- Participate, if possible, in a radio interview to inform businesses, institutions and commercial facilities about MS4 requirements and BMPs.
- Mail flyers to waste management company for distribution to business customers
- Periodic posts that will inform the general public about up to date information and recommend BMPs.
- Post the pet waste bylaw on the town website and distribute flyers of the bylaw with dog licenses.
- Have articles ready and available to the public at the town hall, DPW and website
- Work with school science department to incorporate relevant stormwater material into the curriculum.
- Use the local cable system to spread awareness and inform the viewers on relevant stormwater information



- Install pet waste stations at Bliss, Laurel and Turner park to help cut down on pet waste pollution/litter.
- Installation of Trash Racks on impaired and known problem brooks to help minimize pollution of floating solids.

Longmeadow will utilize the existing public education and outreach program to distribute educational materials to target audiences via the internet, email, direct mailing, local cable channel, and/or public posting.

### 3.1.2 MCM 1 Goals, Progress and Documentation

To the extent practicable, the Town will quantify the number of target audience entities that are reached during distribution efforts. We will assess changes in behavior for specific issues and evaluate the effectiveness of the program. Documentation of BMP progress should be kept in **Appendix F**, as appropriate. (Note, other recordkeeping methods are utilized as part of the SWMP for the Town.

## 3.2 MCM 2 – Public Involvement and Participation

**OBJECTIVE: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the SWMP.**

This section of the SWMP describes how to comply with public Involvement and participation requirements in General Permit Section 2.3.3.

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
2A	Public review and participation. SWPM review.  DPW oversight.	<ul style="list-style-type: none"> <li>• Allow annual review of stormwater management program and posting on website.</li> <li>• Allow public to comment on stormwater management program.</li> </ul>	2019
2B	Cleanup. Adopt-a-stream, invasive species removal, and adopt-a-park.  DPW oversight.	<ul style="list-style-type: none"> <li>• Evaluate number of applications/ volunteers.</li> <li>• Provide Disposal area for removed vegetation.</li> <li>• Support interested groups by providing tools and disposing of trash bagged by participants.</li> </ul>	2020

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
2C	Committee. Stormwater Committee.	<ul style="list-style-type: none"> <li>Formation of committee and meet on as-needed basis</li> <li>Coordinate strategies with Pioneer Valley Planning Commission's Connecticut River Stormwater Committee (PVPC CRSWC)</li> </ul>	2019 (and ongoing)
2D	Offer compost bins to residents at discounted rate. DPW operations.	<ul style="list-style-type: none"> <li>Account for number of bins purchased and distributed</li> </ul>	2018 (and ongoing)
2E	Household Hazardous Waste	<ul style="list-style-type: none"> <li>Longmeadow residents can bring the items to NEDT in Westfield.</li> <li>Each household is granted \$50 per year</li> </ul>	2019 (and ongoing)

### 3.2.1 MCM 2 Implementation

Longmeadow provided the public with an opportunity to review the SWMP in its draft format. Based on changes within the Town (including DPW) and the availability of updated information that the SWMP was updated in 2020 in accordance with Section 1.10.a. of the MA MS4 General Permit. Further opportunity will be provided public review, comments and participation. The DPW is the primary responsible party for this SWMP. Nonetheless, other Town Departments can assist in implementation, as public participation in stormwater management initiatives often is a multi-Department/Commission effort.

### 3.2.2 MCM 2 Documentation

Documentation of BMP progress may be kept in **Appendix F** (or alternate recordkeeping methods). The following checklist includes the required documentation for MCM 2. See Section 5 of this Plan for additional record keeping information.

- Public meeting dates and topics when stormwater management-related topic is discussed.
- Dates of public participation activities and quantification of participation (such as number of volunteers/participants, number of bags collected, etc.)
- Meeting dates, topics, and attendees for Stormwater Working Group meetings.

### 3.3 MCM 3 – Illicit Discharge Detection and Elimination (IDDE) Program

**OBJECTIVE:** The permittee shall implement an IDDE program to systematically find and eliminate sources of non-stormwater discharges to its municipal separate storm sewer system and implement procedures to prevent such discharges.

This section of the SWMP describes how to comply with the IDDE requirements in General Permit Section 2.3.4.

*Note: An **illicit discharge** is any discharge to a municipal separate storm sewer that is not composed entirely of stormwater, except discharges pursuant to another NPDES permit.*

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
3A	Sanitary Sewer Overflow (SSO) inventory.	<ul style="list-style-type: none"><li>Develop SSO inventory in accordance of permit conditions.</li><li>Eliminate SSO upon detection.</li></ul>	2018
3B	Storm Sewer System Mapping (Phase I and II)	<ul style="list-style-type: none"><li>Outfall inventory largely completed.</li><li>Create, maintain GIS map and update during IDDE program implementation.</li><li>Complete full system map 10 years after effective date of permit.</li></ul>	2018 (and ongoing)
3C	Written IDDE Program Manual	<ul style="list-style-type: none"><li>Create written program with outline of responsibilities and procedures, ranking of outfalls and catchment investigations.</li><li>Update as necessary.</li></ul>	2019 (and ongoing)
3D	IDDE Ordinance/By-Law	<ul style="list-style-type: none"><li>Review current procedures and modify by-law language for Town approval if needed.</li></ul>	2020 (and ongoing)
3E	Employee Training	<ul style="list-style-type: none"><li>Train employees on IDDE implementation.</li><li>Annual updates and tracking.</li></ul>	2020
3F	Conduct dry weather screening	<ul style="list-style-type: none"><li>Town has approx. 150 outfalls.</li><li>Conduct per outfall screening procedure and permit conditions.</li><li>Complete 3 years after effective date of permit. Track # of illicit discharges and sampling results</li></ul>	2020

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
3G	Conduct wet weather screening	<ul style="list-style-type: none"> <li>• Conduct outfall/Interconnection screening in catchments with System Vulnerability Factors prior to initiation of catchment investigation. Provide data annually.</li> <li>• Wet weather screening and sampling during or after a precipitation of sufficient intensity to produce a discharge. Recommended in the Spring.</li> </ul>	Est. 2022
3H	Assessment, Prioritization, Ranking, Catchment Investigations and Ongoing Screening	<ul style="list-style-type: none"> <li>• Update IDDE Program Manual with refined prioritization</li> <li>• Catchment Investigations per IDDE.</li> <li>• Upon verification of illicit discharge, locate, identify, and eliminate the as expeditiously as possible.</li> <li>• Evaluate the overall effectiveness of the IDDE Program using the indicators for tracking program success.</li> </ul>	2022

The above-described BMPs are coordinated by the DPW Engineering Division and Water and Sewer Division. Additional Town departments, such as the Building Department and Board of Health, are likely to play oversight role for enforcement. External resources (e.g., consultants) are utilized where appropriate.

### 3.3.1 MCM 3 Implementation

A written IDDE Plan is being updated by the Town of Longmeadow. Refer to that Plan for more detailed implementation information on the IDDE program and requirements of MCM 3.

A detailed map of Longmeadow's drainage system has been developed, and is made public on the Town's website. The existing mapping and available data layers largely meet the intent of the MS4 General Permit. Town staff will continue to update the map as necessary to reflect new infrastructure, newly identified information, corrections, etc.

Current Town Bylaws prohibit any person to "construct, use, allow, maintain or continue any illicit connection to the municipal storm drain system, regardless of whether the connection was permissible under applicable law, regulation or custom at the time of connection."

### 3.3.2 MCM 3 Documentation

Longmeadow is implementing its IDDE Plan, and will continue to update and modify the Plan on an as-needed basis. Documentation of BMP progress may be kept in **Appendix F**.



### 3.4 MCM 4 – Construction Site Stormwater Runoff Control

**OBJECTIVE:** To minimize or eliminate erosion and maintain sediment on site so that it is not transported in stormwater and allowed to discharge to a water of the U.S through the permittee's MS4. The construction site stormwater runoff control program required by this permit is a separate and distinct program from EPA's stormwater construction permit program.

This section of the SWMP describes how to comply with the IDDE requirements in General Permit Section 2.3.5.

*Note: The construction site stormwater runoff control program required by this permit is a separate and distinct program from EPA's stormwater construction permit program.*

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
4A	Stormwater and Land Disturbance Bylaw and Site Plan Review Procedures	<ul style="list-style-type: none"><li>• Develop and implement local By-law for practices that eliminate soil erosion and sedimentation and control stormwater runoff resulting from land disturbance activities.</li><li>• Eliminate SSO upon detection.</li></ul>	2018
4B	Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	<ul style="list-style-type: none"><li>• Develop written procedures of site inspections and enforcement procedures.</li><li>• Require submission of Erosion and Sediment Control Plan for activity that results in disturbance of 1 acre or more.</li><li>• Track construction projects and site inspections.</li></ul>	2018

The Town's Stormwater Management and Land Disturbance Bylaw (Article 7, Chapter 700) empowers the Department of Public Works to enforce the construction site stormwater runoff control provisions of the permit.

#### 3.4.1 MCM 4 Implementation

Longmeadow has developed standard operating procedures for inspections of sediment and erosion control measures on projects that meet the applicability criteria of the bylaw. A municipal compliance inspector has the authority to place the burden of demonstrating compliance on the site operator or contractor. Construction site stormwater runoff control requirements can be amended based on a variety of factors, including: information submitted by the public and for potential water quality impacts, evaluation of opportunities for use of low-impact development and green infrastructure.

Longmeadow's Stormwater Management and Land Disturbance Bylaw require stormwater management practices that meet the standards of the Massachusetts Stormwater Management Policy. Through permit application and review, the standards of the and Massachusetts Stormwater Management Handbook Volumes I and II are incorporated. Applicants must develop and implement a plan to control construction-related impacts including erosion, sedimentation, and other pollutant sources during construction and land disturbance activities. The process also includes measures to properly manage onsite construction and waste materials. Longmeadow will continue to require and enforce these requirements.

### 3.4.2 MCM 4 Documentation

Documentation of BMP progress may be kept in **Appendix F** or with project-specific files maintained by the Engineering Division. The following checklist includes the required documentation for MCM 4. See Section 5 of this Plan for additional record keeping information.

- ☐ Number of site reviews, inspections, and enforcement actions; and
- ☐ Modifications to Longmeadow's bylaws, regulations, policies, or procedures as necessary.

## 3.5 MCM 5 – Post-Construction Stormwater Management

**OBJECTIVE: To reduce the discharge of pollutants found in stormwater through the retention or treatment of stormwater after construction on new or redeveloped sites.**

This section of the SWMP describes how to comply with the IDDE requirements in General Permit Section 2.3.6.

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
5A	Develop written post-construction stormwater runoff procedures	<ul style="list-style-type: none"> <li>As appropriate, upon completion of the work, require submission of as-built construction plans.</li> <li>Implement long term maintenance practices in accordance with <i>Massachusetts Stormwater Handbook</i>.</li> <li>The new development/redevelopment program to procedures for adequate long-term operation and maintenance of stormwater management practices.</li> <li>Work with ConCom to implement post-construction stormwater management.</li> </ul>	2018 (and ongoing)

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
5B	Assess street and parking lot guidelines	<ul style="list-style-type: none"> <li>Assess design standards relative to creation of impervious cover.</li> <li>Determine if streets and parking lots can be made to support low impact design.</li> </ul>	2021*
5C	Assess green infrastructure	<ul style="list-style-type: none"> <li>Assess feasibility of making green infrastructure practices (e.g., rain gardens) improvements when appropriate site conditions exist.</li> <li>Implement recommendations where possible and report on findings.</li> </ul>	2021*
5D	Identify Town-owned sites for possible retrofit with BMPs to improve stormwater.	<ul style="list-style-type: none"> <li>Conduct inventory of municipal Properties and rank for retrofit potential.</li> <li>Identify at least 5 sites owned by the Town with potential for modifications.</li> </ul>	2021*

\* To be completed no later than 4 years of permit effective date.

The above-described BMPs are coordinated by the DPW Engineering Division. Additional Town departments, such as the Conservation Commission, Building Department and Planning and Zoning, are likely to play oversight role for enforcement.

### 3.5.1 MCM 5 Implementation

Longmeadow will implement a program to reduce pollutants in stormwater runoff discharged to the municipal system from post-construction activities for new development and redevelopment sites greater than one acre. Additionally, the Town will evaluate the effectiveness of its Stormwater Management and Land Disturbance Bylaw and recommend and changes, as necessary

### 3.5.2 MCM 5 Checklist of Key Documentation

Documentation of BMP progress may be kept in **Appendix F** as appropriate. The following checklist includes the required documentation for MCM 5. See Section 5 of this Plan for additional record keeping information.

- ☐ Measures the Town has taken to ensure adequate long-term operation and maintenance of stormwater BMPs and to require submission of as-built plans.
- ☐ Modifications to Longmeadow's Bylaws, regulations, policies, and/or procedures as necessary
- ☐ Retrofit inventory, including all sites that have been modified or retrofitted. Sites should include town-owned sites identified in the inventory as well as non-municipal property modified or retrofitted to reduce impervious area.

### 3.6 MCM 6 – Good Housekeeping and Pollution Prevention

**OBJECTIVE:** Implement an operations and maintenance program for Longmeadow operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned operations.

This section of the SWMP describes how to comply with the IDDE requirements in General Permit Section 2.3.7.

BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
6A	Develop Operations & Maintenance (O&M) Plan to document procedures for implementation.	<ul style="list-style-type: none"><li>• Develop inventory of Town-owned properties focusing on where pollutants are exposed to stormwater runoff</li><li>• Create written O&amp;M procedures including requirements at 2.3.7.a. for parks and open spaces, buildings and facilities (where pollutants are exposed to stormwater), and vehicles and equipment.</li><li>• Report on status of O&amp;M programs, maintenance activities, best practices, etc.</li></ul>	2018 (and ongoing)
6B	Stormwater Pollution Prevention Plan (SWPPP)*	<ul style="list-style-type: none"><li>• Create SWPPPs for transfer station, DPW facility, and other waste handling facilities where pollutants are exposed to stormwater.</li><li>• Keep records associated with the development and implementation of the SWPPP. Report status of SWPPP annually.</li></ul>	2020
6C	Municipal infrastructure O&M	<ul style="list-style-type: none"><li>• Catch basin cleaning/maintenance. Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule</li><li>• Street sweeping program. Sweep streets and Town-owned parking lots in accordance with permit conditions.</li><li>• Road salt use optimization program. Consider a program to minimize the use of road salt.</li><li>• Inspections and maintenance of stormwater treatment structures. Establish and implement inspection and maintenance procedures and frequencies.</li></ul>	2020



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BMP ID	BMP Category and Description	Actions and Measureable Goals	Start Year of Implementation
6D	Inspections and Training	<ul style="list-style-type: none"> <li>Inspect areas exposed to stormwater and stormwater control measures at each facility at least once per calendar quarter and report findings in annual report.</li> <li>Conduct regular training of appropriate personnel consistent with SWPPP. (Training can be integrated into other modules.)</li> </ul>	2020

\* No SWPPP needed for facility with a no exposure certification.

### 3.6.1 MCM 6 Implementation

Longmeadow has developed a Municipal Stormwater *Infrastructure Operation and Maintenance Plan* to address: catch basin, streets and parking lots, catch basin cleanings and street sweepings, winter road maintenance, and structural stormwater BMPs. The Town will store and dispose/reuse catch basin cleanings according to accepted industry practices and well as applicable MassDEP policies.

### 3.6.2 MC6 Checklist of Key Documentation

Documentation of BMP progress may be kept in **Appendix F** or with project-specific files maintained by the Engineering Division relating to MCM 6. See Section 5 of this Plan for additional record keeping information.

- ☐ Inventory of municipal facilities and equipment;
- ☐ Plan for optimizing catch basin cleaning and metrics about the number of catch;
- ☐ basins, quantity cleaned and inspected, and total volume of material removed from all catch basins;
- ☐ Miles of streets cleaned and the volume of material removed; and
- ☐ Records associated with SWPPP quarterly site inspections, maintenance activities, and training.

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## 4.0 TMDLs, IMPAIRED WATERS AND ENHANCED BMPs

### 4.1 General

HERE. The Massachusetts MS4 Permit at Part 2.2 describes additional requirements for MS4s that discharge to waters that are subject to Total Maximum Daily Loads (TMDLs) and/or that discharge to certain water quality limited waters. Specific requirements are detailed in the MS4 Permit Appendix F (for TMDLs) and Appendix H (for impaired waters). To meet water quality standards per section 2.1.1 of the MA MS4 Permit:

*If there is a discharge from the MS4 to a waterbody (or its tributaries in some cases) that is subject to an approved TMDL identified in part 2.2.1, the permittee is subject to the requirements of part 2.2.1 and Appendix F of this permit and the permittee shall comply with all applicable schedules and requirements in Appendix F. A permittee's compliance with all applicable requirements and BMP implementation schedules in Appendix F applicable to it will constitute compliance with part 2.1.1.a. of the Permit.*

and

*If there is a discharge from the MS4 to a waterbody (or its tributaries in some cases) that is water quality limited (see definition in Appendix A) due to nutrients (Total Nitrogen or Total Phosphorus), metals (Cadmium, Copper, Iron, Lead or Zinc), solids (TSS or Turbidity), bacteria/pathogens (E. Coli, Enterococcus or Fecal Coliform), chloride (Chloride) or oil and grease (Petroleum Hydrocarbons or Oil and Grease) and is not subject to an approved TMDL, or the MS4 is located within a municipality listed in part 2.2.2.a.-b., the permittee is subject to the requirements of part 2.2.2 and Appendix H of this permit and the permittee shall comply with all applicable schedules and requirements in Appendix H. A permittee's compliance with all applicable requirements and BMP implementation schedules in Appendix H applicable to it will constitute compliance with part 2.1.1.a. of the Permit.*

As previously, Longmeadow is located within the Connecticut River watershed, which is part of the Long Island Sound watershed. The Long Island Sound is subject TMDL for Nitrogen. Discharges from MS4s in Massachusetts to waters that are tributaries to the Long Island Sound are subject to the requirements of Appendix F, part B.1. of the MS4 Permit.

Based off the proposed 2016 list of impaired waters the Longmeadow Brook (MA34-21) is impaired with Debris/Floatables/Trash, Escherichia Coli, Phosphorus (Total) and Turbidity. To address the bacteria impairments in the waters, the Town must comply with Appendix H as applicable.

There are no public surface drinking water supply sources or their tributaries within the Town of Longmeadow.

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## 4.2 TMDL for Nitrogen (Long Island Sound)

In accordance with Appendix F of the MA MS4 Permit, enhanced BMPs, Nitrogen source identification, and structural BMPs are required for Nitrogen.

### 4.2.1 Enhanced BMPs

Enhanced BMPs shall include:

- **Supplemental Public Education and Outreach.** Annual timed messages on specific topics such as: April/May, encourages the proper use and disposal of grass clippings and the proper use of slow-release fertilizers; June/July, encourages the proper management of pet waste; and August/September/October; encourage the proper disposal of leaf litter.
- **Good Housekeeping and Pollution Prevention.** Establish requirements for use of slow-release fertilizers on Town-owned property, street sweeping of municipally owned streets and parking lots will be increased to two times per year (spring and fall).

### 4.2.2 Other Requirements

The following additional requirements are relevant:

- **Nitrogen Source Identification Report.** The final Nitrogen Source Identification Report shall be submitted to EPA as part of the year 4 annual report.
- **Structural BMPs.** Within five years of the permit effective date, the Longmeadow will evaluate properties for retrofit opportunities or areas for structural BMP installation. Also, plan and install one structural BMP as a demonstration project within six years of the permit effective date.

## 4.3 Water Quality Limited (Longmeadow Brook, MA34-21)

Longmeadow Brook (MA34-21) is impaired with Debris/Floatables/Trash, Escherichia Coli, Phosphorus (Total) and Turbidity. It is listed in categories 5 or 4b on the Massachusetts Integrated Report of waters listed.

WATER BODY	SEGMENT ID	DESCRIPTION	SIZE	UNITS	IMPAIRMENT
Longmeadow Brook	MA34-21	Headwaters, outlet Turner Park Pond, Longmeadow to mouth at confluence with Connecticut River, Longmeadow.	4.5	MILES	(Debris/Floatables/Trash*)
					Escherichia coli
					Phosphorus (Total)
					Turbidity

Therefore, under Section 2.2.2 of the MA MS4 General Permit, Longmeadow must comply with the provisions in Appendix H of the Permit.

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#### 4.3.1 *Enhanced BMPs*

Enhanced BMPs shall include:

- **Public Education and Outreach.** For phosphorus and bacteria, the messaging is similar to as described in Section 4.2.1.
- **Stormwater Management in New Development and Redevelopment.** Ordinance or other regulatory mechanism to required stormwater management BMPs be optimized for phosphorus removal, and related retrofits where feasible.
- **Illicit Discharge.** Designate catchments draining to waters impaired for bacteria or pathogens as either Problem or High Priority catchments in implementation of the IDDE program.

#### 4.3.2 *Other Requirements*

The following additional requirements are relevant:

- **Phosphorous Source Identification Report.** The final Nitrogen Source Identification Report shall be submitted to EPA as part of the year 4 annual report.
- **Structural BMPs.** Within five years of the permit effective date, the Longmeadow will evaluate properties for retrofit opportunities or areas for structural BMP installation. Also, plan and install one structural BMP as a demonstration project within six years of the permit that targets high phosphorus load potential.

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## 5.0 PROGRAM EVALUATION, RECORD KEEPING AND REPORTING

### 5.1 Program Evaluation

In accordance with Section 4.1 of the MA MS4 General Permit, Longmeadow will annually self-evaluate its compliance with the terms and conditions of the 2016 General Permit, including the appropriateness of selected BMPs and progress toward defined measurable goals. The self-evaluation will be submitted as part of the Annual Report and maintained as part of the SWMP.

Longmeadow may update or revise the SWMP as the Town's activities are modified, changed, or updated to meet permit conditions. If it is necessary to modify or update the SWMP, the Town should follow this procedure to formalize the changes:

- Keep a log with a description of the modification, the date, and the name and signature of the person making it; and
- Re-sign and date the certification statement in Section 6 of this SWMP.

A SWMP amendment log and additional certification statements are located in **Appendix G** of this document.

### 5.2 Record Keeping

Longmeadow will keep all records required by the 2016 General Permit for at least 5 years, including, but not limited to the following key information:

- Monitoring results;
- Copies of reports;
- Records of outfall/interconnection screening;
- Follow-up and elimination of illicit discharges;
- Maintenance records; and
- Inspection records.

Checklists of record keeping items that the Town should maintain are also included under each BMP in Section 3 of the SWMP. Records relating to the 2016 General Permit, including the SWMP, will be made available to the public, as required by Section 4.2.c of the Permit.



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### 5.3. Annual Reports

The Town will submit annual reports each year of the Small MS4 permit term consistent with regulatory deadlines. The reporting period will be a one-year period commencing on the permit effective date, and subsequent anniversaries thereof. Under the 2016 General Permit, annual reports will consist of a simple update provided to EPA and more robust documentation maintained in conjunction with this SWMP as applicable.

Per Section 4.4.b of the 2016 General Permit, the annual reports shall contain the following information:

- Self-assessment review of compliance with the permit terms and conditions.
- An assessment of the appropriateness of the selected BMPs.
- Status of plans or activities regarding discharges affecting water quality standards (and response), specific BMPs used to address the pollutant (where subject to TMDL), and description of each BMP required by Appendix H.
- Assessment of the progress towards achieving the measurable goals and objectives of each control measure (e.g., public education/participation, status of IDDE program, construction runoff management, status of the O&M Programs and SWPPP).
- Outfall screening and monitoring data collected during the reporting period and cumulative for the permit term.
- Descriptions of activities for the next reporting cycle, changes in identified BMPs or measurable goals.

As appropriate, Longmeadow will indicate BMP modifications along with a brief explanation of the modification in the Annual Report.

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## 6.0 CERTIFICATION

In accordance Appendix B of the General Permits, reports, including SWPPPs, inspection reports, annual reports, monitoring reports, reports on training and other information required by this permit must be signed by a person described in Appendix B, Subsection 11.A above or by a duly authorized representative of that person.

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Name: Marib Mazzaf

Title: DPW Director

Signature: [Handwritten Signature]

Date: 9/3/20

A letter that authorizes the Longmeadow Town Manager and Director of the Department of Public Works to sign and certify certain documents prepared under the Small MS4 General Permit is included in **Appendix H** of this SWMP.

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## 7.0 ACRONYMS

BMP	Best Management Practice
BPJ	Best Professional Judgment
CGP	Construction General Permit
CWA	Clean Water Act (or the Federal Water Pollution Control Act)
DCIA	Directly Connected Impervious Area
DPW	Department of Public Works
ESC	Erosion and Sediment Control
EPA	U. S. Environmental Protection Agency
ESA	Endangered Species Act
USFWS	U. S. Fish and Wildlife Service
IA	Impervious Area
IDDE	Illicit Discharge Detection and Elimination
ILW	Integrated Lists of Waters
LA	Load Allocations
MassDEP	Massachusetts Department of Environmental Protection
MCM	Minimum Control Measure
MOS	Margin of Safety
MS4	Municipal Separate Storm Sewer System
MSGP	Multi-Sector General Permit
NEDT	New England Disposal Technologies
NHESP	Natural Heritage & Endangered Species Program
NHPA	National Historic Preservation Act
NMFS	U. S. National Marine Fisheries Service
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NSPS	New Source Performance Standard
NTU	Nephelometric Turbidity Unit
PE	Professional Engineer
POTW	Publicly Owned Treatment Works
PVPC	Pioneer Valley Planning Commission
PY	Permit Year
RCRA	Resource Conservation and Recovery Act
SHPO	State Historic Preservation Officer
SIC	Standard Industrial Classification

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SPCC	Spill Prevention, Control, and Countermeasure
SSO	Sanitary Sewer Overflow
SVF	System Vulnerability Factor
SWMP	Stormwater Management Program
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
WLA	Waste Load Allocation
WQS	Water Quality Standard

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## 8.0 OTHER INFORMATION

### 8.1 Useful Websites

The websites provide are resources for MS4 information and tools to assist in addressing technical requirements as well as topics such as public education and outreach:

Massachusetts Stormwater Handbook

<https://www.mass.gov/guides/massachusetts-stormwater-handbook-and-stormwaterstandards>

EPA SWMP Resources – Post Construction Stormwater Control

<https://www.epa.gov/npdes-permits/stormwater-tools-new-england#pcsm>

EPA National Menu of BMPs for Stormwater

<https://www.epa.gov/npdes/national-menu-best-management-practices-bmpsstormwater#post>

EPA Public Education

<https://cfpub.epa.gov/npstbx/>

EPA Stormwater Management Program Resources – Public Education

<https://www.epa.gov/npdes-permits/stormwater-tools-new-england#peo>

EPA Stormwater Education Toolkit (SET)

<http://www.stormwater.ucf.edu/toolkit/>

EPA National Menu of BMPs for Stormwater

<https://www.epa.gov/npdes/national-menu-best-management-practices-bmpsstormwater#edu>

MassDEP Public Education

<https://www.mass.gov/guides/stormwater-outreach-materials-to-help-towns-comply-with-thems4-permit>

Developing an Effective Stormwater Education and Outreach Program for Your Community

[http://www.urbanwaterslearningnetwork.org/wp-content/uploads/2016/04/Manual-Stormwater-Education-and-Outreach\\_2014.pdf](http://www.urbanwaterslearningnetwork.org/wp-content/uploads/2016/04/Manual-Stormwater-Education-and-Outreach_2014.pdf)

EPA - Evaluation of the Role of Public Outreach and Stakeholder Engagement in Stormwater Funding Decisions in New England: Lessons from Communities

<https://www.epa.gov/sites/production/files/2015-09/documents/eval-sw-fundingnewengland.Pdf>



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Think Blue Massachusetts: Residents, Businesses, Developers, Industrial Facilities,  
and MS4 Communities

<https://www.thinkbluemassachusetts.org/>

Center for Watershed Protection - Illicit Discharge Detection and Elimination: A  
Guidance Manual for Program Development and Technical Assessments

[https://www3.epa.gov/npdes/pubs/idde\\_manualwithappendices.pdf](https://www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf)

EPA Stormwater Management Program Resources – IDDE

<https://www.epa.gov/npdes-permits/stormwater-tools-new-england#idd>

EPA Stormwater Management Program Resources – Good Housekeeping

<https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh>

EPA National Menu of BMPs for Stormwater

<https://www.epa.gov/npdes/national-menu-best-management-practices-bmpsstormwater#poll>

Center for Watershed Protection - Municipal Pollution Prevention/Good Housekeeping Practices

<https://owl.cwp.org/mdocs-posts/urban-subwatershed-restoration-manual-series-manual-9/>

MassDEP - Management of Catch Basin Cleanings

<https://www.mass.gov/files/documents/2018/03/09/catch-basins.pdf>

MassDEP - Reuse & Disposal of Street Sweepings

<https://www.mass.gov/files/documents/2018/05/14/street-sweepings.pdf>

MassDEP - Snow Disposal Guidance

<https://www.mass.gov/guides/snow-disposal-guidance>

CMRSWC SOP 9: Inspecting Constructed BMPs

[https://www.centralmastormwater.org/sites/centralmastormwater/files/uploads/constructed\\_bmp\\_inspection\\_sop\\_final.pdf](https://www.centralmastormwater.org/sites/centralmastormwater/files/uploads/constructed_bmp_inspection_sop_final.pdf)

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## Appendices

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## **Appendix A**

### **Notice of Intent and Authorization to Discharge Letter from EPA**

## Part I: General Conditions

### General Information

Name of Municipality or Organization:  State:

EPA NPDES Permit Number (if applicable):

### Primary MS4 Program Manager Contact Information

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

Fax Number:

### Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed):

### Eligibility Determination

Endangered Species Act (ESA) Determination Complete?  Eligibility Criteria (check all that apply): ☐ A ☐ B ☒ C

National Historic Preservation Act (NHPA) Determination Complete?  Eligibility Criteria (check all that apply): ☒ A ☐ B ☐ C

☒ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

### MS4 Infrastructure (if covered under the 2003 permit)

Estimated Percent of Outfall Map Complete?  If 100% of 2003 requirements not met, enter an estimated date of completion (MM/DD/YY):

Web address where MS4 map is published:

*If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options)*

### Regulatory Authorities (if covered under the 2003 permit)

<b>Illicit Discharge Detection and Elimination (IDDE) Authority Adopted?</b> <i>(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)</i>	<input type="text" value="Yes"/>	Effective Date or Estimated Date of Adoption (MM/DD/YY): <input type="text" value="06/18/09"/>
<b>Construction/Erosion and Sediment Control (ESC) Authority Adopted?</b> <i>(Part II,III,IV or V, Subpart B.4.(a.) of 2003 permit)</i>	<input type="text" value="Yes"/>	Effective Date or Estimated Date of Adoption (MM/DD/YY): <input type="text" value="06/18/09"/>
<b>Post- Construction Stormwater Management Adopted?</b> <i>(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)</i>	<input type="text" value="Yes"/>	Effective Date or Estimated Date of Adoption (MM/DD/YY): <input type="text" value="06/18/09"/>

## Part II: Summary of Receiving Waters

Massachusetts list of impaired waters: Massachusetts 2014 List of Impaired Waters- <http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf>

[illegible]



Waterbody that receives flow from the MS4 and segment ID if applicable	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Waterworks Brook	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Click to lengthen table

## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and an applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

#### MCM 1: Public Education and Outreach

<b>BMP Media/Category</b> (enter your own text to override the drop down menu)	<b>BMP Description</b>	<b>Targeted Audience</b>	<b>Responsible Department/Parties</b> (enter your own text to override the drop down menu)	<b>Measurable Goal</b>	<b>Beginning Year of BMP Implementation</b>
Special Events/Festivals/Fairs	Hazardous Waste Day	Residents	Board of Health	Amount of hazardous waste collected from residents	2003
Videos	Wide distribution of Think Blue video and "15 to the River" video	Residents	DPW Operations	# of interviews and estimated audience	2018
Newspaper Articles/Press Releases	Radio interview about Think Blue and requirements under MS4 permit	Residents	DPW Operations	# of interviews and estimated audience	2018
Displays/Posters/Kiosks	Panels on buses, posters, press release on cigarette butts	Residents	DPW Operations	estimated audience and impressions, visits to website, stories places from press release	2019
Displays/Posters/Kiosks	Panels on buses, posters, press release on litter (especially nip bottles)	Residents	DPW Operations	estimated audience and impressions, visits to website, stories places from press release	2021
Newspaper Articles/Press Releases	Radio interview about Think Blue and requirements under MS4 permit	Businesses, Institutions and Commercial Facilities	DPW Operations	# of interviews and estimated audience	2018



## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary (continued)

## MCM 2: Public Involvement and Participation

[illegible]





## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary (continued)

#### MCM 3: Illicit Discharge Detection and Elimination (IDDE)

<b>BMP Categorization</b> (enter your own text to override the drop down menu)	<b>BMP Description</b>	<b>Responsible Department/Parties</b> (enter your own text to override the drop down menu)	<b>Measurable Goal</b> (all text can be overwritten)	<b>Beginning Year of BMP Implementation</b>
SSO inventory	Develop SSO inventory in accordance of permit conditions	DPW Engineering, Water & Sewer Dept.	Complete within 1 year of effective date of permit	2018
Storm sewer system map	Create map and update during IDDE program completion	DPW Engineering, External Contractor	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2018
Written IDDE program	Create written IDDE program	DPW Engineering	Complete within 1 year of the effective date of permit and update as required	2019
Implement IDDE program	Implement catchment investigations according to program and permit conditions	DPW Engineering	Complete 10 years after effective date of permit	2019
Employee training	Train employees on IDDE implementation	DPW Operations	Train annually	2018
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	DPW Engineering, External Contractor	Complete 3 years after effective date of permit	2021
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	DPW Engineering, External Contractor	Complete 10 years after effective date of permit	2028
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	DPW Engineering, External Contractor	Complete ongoing outfall screening upon completion of IDDE program	2028



**Notice of Intent (NOI) for coverage under Small MS4 General Permit**Part III: Stormwater Management Program Summary *(continued)*

## MCM 4: Construction Site Stormwater Runoff Control

<b>BMP Categorization</b> (enter your own text to override the drop down menu or entered text)	<b>BMP Description</b>	<b>Responsible Department/Parties</b> (enter your own text to override the drop down menu)	<b>Measurable Goal</b> (all text can be overwritten)	<b>Beginning Year of BMP Implementation</b>
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures	DPW Director, Select Board	Complete within 1 year of the effective date of permit	2009
Site plan review	Complete written procedures of site plan review and begin implementation	DPW Director, Select Board	Complete within 1 year of the effective date of permit	2009
Erosion and Sediment Control	Adoption of requirements for construction operators to implement a sediment and erosion control program	DPW Director, Select Board	Complete within 1 year of the effective date of permit	2009
Waste Control	Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes	DPW Director, Select Board	Complete within 1 year of the effective date of permit	2009



## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary *(continued)*

#### MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

<b>BMP Categorization</b> (enter your own text to override the drop down menu or entered text)	<b>BMP Description</b>	<b>Responsible Department/Parties</b> (enter your own text to override the drop down menu)	<b>Measurable Goal</b> (all text can be overwritten)	<b>Beginning Year of BMP Implementation</b>
As-built plans for on-site stormwater control	The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP	DPW Engineering	Require submission of as-built plans for completed projects	2009
Target properties to reduce impervious areas	Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually	DPW Engineering	Complete 4 years after effective date of permit and report annually on retrofitted properties	2022
Allow green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	DPW Engineering	Complete 4 years after effective date of permit and implement recommendations of report	2022
Street design and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	DPW Engineering	Complete 4 years after effective date of permit and implement recommendations of report	2022

[illegible]



## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary (continued)

#### MCM 6: Municipal Good Housekeeping and Pollution Prevention

<b>BMP Categorization</b> <small>(enter your own text to override the drop down menu or entered text)</small>	<b>BMP Description</b>	<b>Responsible Department/Parties</b> <small>(enter your own text to override the drop down menu)</small>	<b>Measurable Goal</b> <small>(all text can be overwritten)</small>	<b>Beginning Year of BMP Implementation</b>
O&M procedures	Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment	Parks & Recreation, DPW Engineering, DPW Facilities & Maintenance	Complete and implement 2 years after effective date of permit	2020
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Create inventory	Parks & Recreation, DPW Engineering, DPW Facilities & Maintenance	Complete 2 years after effective date of permit and implement annually	2020
Infrastructure O&M	Establish and implement program for repair and rehabilitation of MS4 infrastructure	DPW Engineering	Complete 2 years after effective date of permit	2020
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	DPW Operations	Complete and implement 2 years after effective date of permit	2020
Catch basin cleaning	Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule	DPW Operations	Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually	2019
Street sweeping program	Sweep all streets and permittee-owned parking lots in accordance with permit conditions	DPW Operations	Sweep all streets and permittee-owned parking lots once per year in the spring	2019
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	DPW Operations	Implement salt use optimization during deicing season	2019



# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

## Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

[illegible]

# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

## Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. In addition, if you are subject to additional requirements due to a downstream nutrient impairment (see Part 2.2.2 of the permit) select the pollutant of concern and indicate applicable waterbody IDs or write "all waterbodies" if applicable. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

[illegible]

**Part IV: Notes and additional information**

Use the space below to indicate the part(s) of 2.2.1 and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary. Also, provide any additional information about your MS4 program below.

Our municipality intends to follow all applicable requirements within App. F.

Our municipality intends to follow all applicable requirements within App. H.

2.2.1.c.i (Nitrogen, Long Island Sound) is the only applicable TMDL. Under App. F section 1.b.ii of the Permit, the final Nitrogen Source Identification Report shall be submitted to the EPA as part of the year 4 annual plan.

Endangered Species Act Statement: Planned actions under the permit will have no effect on the Northern Long Eared Bat. Town of Longmeadow will consult with US Fish & Wildlife as needed during the permit term on any future BMPs.

## Part V: Certification

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Name:

Stephen Crane

Title:

Town Manager

Signature:

Date:

09/21/18

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name



**Part V: Certification**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

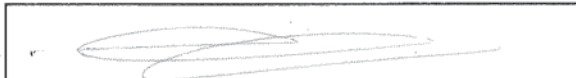
Name:

Stephen Crane

Title:

Town Manager

Signature:



Date:

9/18/18

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name



## United States Department of the Interior

FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 Commercial Street, Suite 300  
Concord, NH 03301-5094  
Phone: (603) 223-2541 Fax: (603) 223-0104  
<http://www.fws.gov/newengland>



In Reply Refer To:

August 09, 2018

Consultation Code: 05E1NE00-2018-SLI-2670

Event Code: 05E1NE00-2018-E-06254

Project Name: Longmeadow NOI

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New England Ecological Services Field Office**

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

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## Project Summary

Consultation Code: 05E1NE00-2018-SLI-2670

Event Code: 05E1NE00-2018-E-06254

Project Name: Longmeadow NOI

Project Type: Regulation Promulgation

Project Description: NOI Preparation for MS4 Permit

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.04826844267207N72.56869443722286W>



Counties: Hartford, CT | Hampden, MA

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## Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

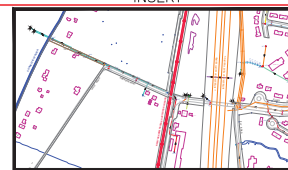
## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

---



INSERT



SEE INSERT



LEGEND			
6"		24"	
8"		27"	
10"		30"	
12"		32"	
14"		36"	
15"		42"	
18"		48"	
20"		60"	
21"			

Longmeadow  
Department of Public Works

Drainage System  
Diagram

SCALE: 1" = 400' DATE: February 15, 2011





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
5 POST OFFICE SQUARE, SUITE 100  
BOSTON, MA 02109-3912

**VIA EMAIL**

June 4, 2019

Stephen Crane  
Town Manager

And;

Mario Mazza  
DPW Director  
31 Pondsides Road  
Longmeadow, MA. 01106  
mmazza@longmeadow.org

Re: National Pollutant Discharge Elimination System Permit ID #: MAR041013, Town of Longmeadow

Dear Mario Mazza:

The 2016 NPDES General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts (MS4 General Permit) is a jointly issued EPA-MassDEP permit. Your Notice of Intent (NOI) for coverage under this MS4 General Permit has been reviewed by EPA and appears to be complete. You are hereby granted authorization by EPA and MassDEP to discharge stormwater from your MS4 in accordance with the applicable terms and conditions of the MS4 General Permit, including all relevant and applicable Appendices. This authorization to discharge expires at midnight on **June 30, 2022**.

For those permittees that certified Endangered Species Act eligibility under Criterion C in their NOI, this authorization letter also serves as EPA's concurrence with your determination that your discharges will have no effect on the listed species present in your action area, based on the information provided in your NOI.

As a reminder, your first annual report is due by **September 30, 2019** for the reporting period from May 1, 2018 through June 30, 2019.

Information about the permit and available resources can be found on our website: <https://www.epa.gov/npdes-permits/massachusetts-small-ms4-general-permit>. Should you have

any questions regarding this permit please contact Newton Tedder at [tedder.newton@epa.gov](mailto:tedder.newton@epa.gov) or (617) 918-1038.

Sincerely,



Thelma Murphy, Chief  
Stormwater and Construction Permits Section  
Office of Ecosystem Protection  
United States Environmental Protection Agency, Region 1

and;



Lealdon Langley, Director  
Wetlands and Wastewater Program  
Bureau of Water Resources  
Massachusetts Department of Environmental Protection

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## **Appendix B**

### **Summary of 2003 and 2016 MS4 General Permit BMPs**

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## **Appendix C**

### **Endangered Species Act Eligibility Criteria Documentation**



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE



New England Field Office  
70 Commercial St, Suite 300  
Concord, NH 03301-5087  
<http://www.fws.gov/newengland>

September 24, 2018

To whom it may concern:

The U.S. Fish and Wildlife Service (USFWS) reviewed the stormwater discharge activities associated with the 2016 National Pollutant Discharge and Elimination System (NPDES) Massachusetts (MA) Small Municipal Separate Storm Sewer System (MS4) general permit (MA MS4 General Permit) issued by the Environmental Protection Agency (EPA). We determined those activities may affect, but are not likely to adversely affect, certain species listed under the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) when specific conditions are met. When these conditions are met, we do not need to review individual projects. These comments are provided in accordance with section 7 of the ESA and complement existing 2016 MA MS4 General Permit Appendix C Guidance. We understand the applicant is acting as a non-Federal representative of the EPA for the purpose of consultation under section 7. **This letter provides additional guidance for meeting Criterion B and should be submitted as part of your application package to the EPA.**

If the USFWS Information for Planning and Consultation website (<https://ecos.fws.gov/ipac/>) indicates your MA MS4 General Permit project action area may contain one or more of the following federally listed endangered species: roseate tern (*Sterna dougallii*), northern red-bellied cooter (*Pseudemys rubriventris*), dwarf wedgemussel (*Alasmidonta heterodon*), rusty patched bumble bee (*Bombus affinis*), northeastern bulrush (*Scirpus ancistrochaetus*), or American chaffseed (*Schwalbea americana*); threatened species: piping plover (*Charadrius melodus*), bog turtle (*Glyptemys muhlenbergii*), Puritan tiger beetle (*Cicindela puritana*), northeastern beach tiger beetle (*Cicindela dorsalis*), or red knot (*Calidris canutus rufa*); or their federally designated critical habitat; and the specific conditions listed below are met, you may submit this letter to complete the **MA MS4 General Permit Appendix C: Step 4** in place of a concurrence letter for informal consultation as documentation of ESA eligibility for **USFWS Criterion B**.

In addition, this letter also satisfies the requirement in the **MA MS4 General Permit Appendix C: Step 2 (3)** to contact the USFWS and obtain a concurrence letter, if you have not yet done so. If your project action area includes one or more of the above-listed species *and* one or more of the



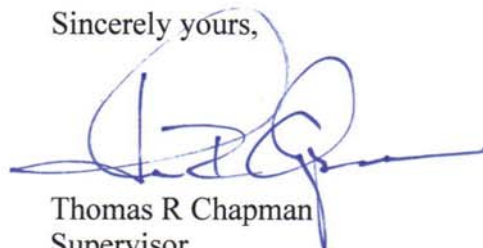
species listed under **Criterion C**,<sup>1</sup> you may still use this letter to certify under **Criterion B**. All existing guidance regarding requirements for certifying eligibility according to the USFWS Criterion A, B, or C for coverage by the 2016 MS4 Permit (see MA MS4 General Permit Appendix C – Endangered Species Guidance) remains unchanged.

We have determined that proposed stormwater discharge activities covered under the 2016 MS4 Permit *may affect, but are not likely to adversely affect*, the above-listed species and the species' critical habitat when the following are true:

1. all stormwater discharges are pre-existing or previously permitted by EPA;
2. any planned operations and maintenance work covered by this permit will only affect previously disturbed areas where stormwater controls are already installed. In these situations the chance of encountering any of the subject species is discountable;
3. the project implements EPA MS4 Best Management Practices (BMPs) and meets Clean Water Act and Massachusetts Water Quality Standards. Although permitted discharges may reach the environment used by these species, BMPs reduce pollutants to the extent that discharges are not known to have measurable impacts on these species or their habitat;
4. no new construction or structural BMPs are proposed under this permit at this time; and
5. you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the Notice of Intent (NOI), you will re-initiate consultation with the USFWS as necessary (see **MA MS4 General Permit Appendix C: Step 2 (5)**).

If the above criteria are met, further consultation with the USFWS under section 7 of the ESA is not required at this time; however, if the proposed action changes in any way such that it may affect a listed species in a manner not previously analyzed or if new information reveals the presence of additional listed species that may be affected by the project, the applicant or the EPA should contact us immediately and suspend activities that may affect those species until the appropriate level of consultation is completed with our office. Thank you for your cooperation, and please contact David Simmons of this office at (603) 227-6425 if you have questions or need further assistance.

Sincerely yours,



Thomas R Chapman  
Supervisor  
New England Field Office

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<sup>1</sup> Criterion C includes guidance for project action areas that may contain species for which EPA has already made a determination. These species include the northern long-eared bat (*Myotis septentrionalis*), sandplain gerardia (*Agalinis acuta*), small whorled pogonia (*Isotria medeoloides*), and/or American burying beetle (*Nicrophorus americanus*) (MA MS4 General Permit Appendix C: Step 3 – Determine if You Can Meet Eligibility USFWS Criterion C).



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 03301  
PHONE: (603)223-2541 FAX: (603)223-0104  
URL: [www.fws.gov/newengland](http://www.fws.gov/newengland)

Consultation Code: 05E1NE00-2017-SLI-0679

January 18, 2017

Event Code: 05E1NE00-2017-E-01116

Project Name: MS4 2017 NOI

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.



A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: MS4 2017 NOI

## Official Species List

### Provided by:

New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 03301  
(603) 223-2541  
<http://www.fws.gov/newengland>

**Consultation Code:** 05E1NE00-2017-SLI-0679

**Event Code:** 05E1NE00-2017-E-01116

**Project Type:** LAND - DRAINAGE

**Project Name:** MS4 2017 NOI

**Project Description:** The town of Longmeadow, MA is seeking to assess the the potential effects of stormwater discharge on federally listed species and critical habitat as required by under the 2017 MS4 permitting process.

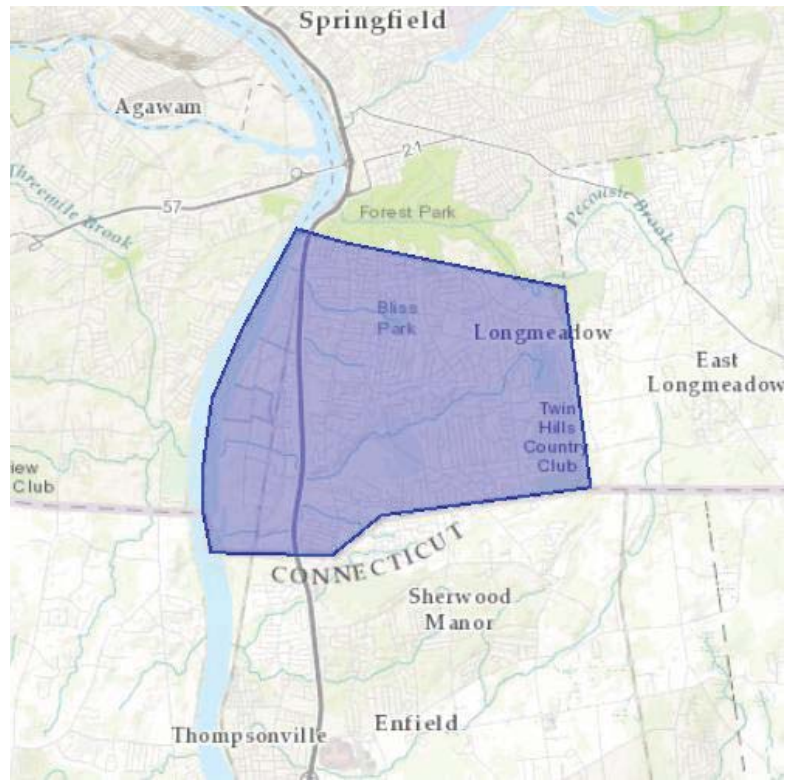
**Please Note:** The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior  
Fish and Wildlife Service

Project name: MS4 2017 NOI

### Project Location Map:



**Project Coordinates:** MULTIPOLYGON (((-72.60658264160158 42.02506864632003, -72.6076126098633 42.028639077928695, -72.60829925537111 42.030806742144335, -72.60812759399415 42.03781926699551, -72.60726928710939 42.043301247496906, -72.60623931884767 42.04789044884172, -72.60057449340822 42.05783258117495, -72.59130477905275 42.07032177219522, -72.58993148803712 42.07248801446381, -72.58031845092775 42.070576628063975, -72.53688812255861 42.0638226018171, -72.53173828125001 42.03450435167559, -72.57310867309572 42.030424218536346, -72.58289337158205 42.02455856829244, -72.60658264160158 42.02506864632003)))

**Project Counties:** Hartford, CT | Hampden, MA



United States Department of Interior  
Fish and Wildlife Service

Project name: MS4 2017 NOI

## Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Northern long-eared Bat ( <i>Myotis septentrionalis</i> ) Population: Wherever found	Threatened		



United States Department of Interior  
Fish and Wildlife Service

Project name: MS4 2017 NOI

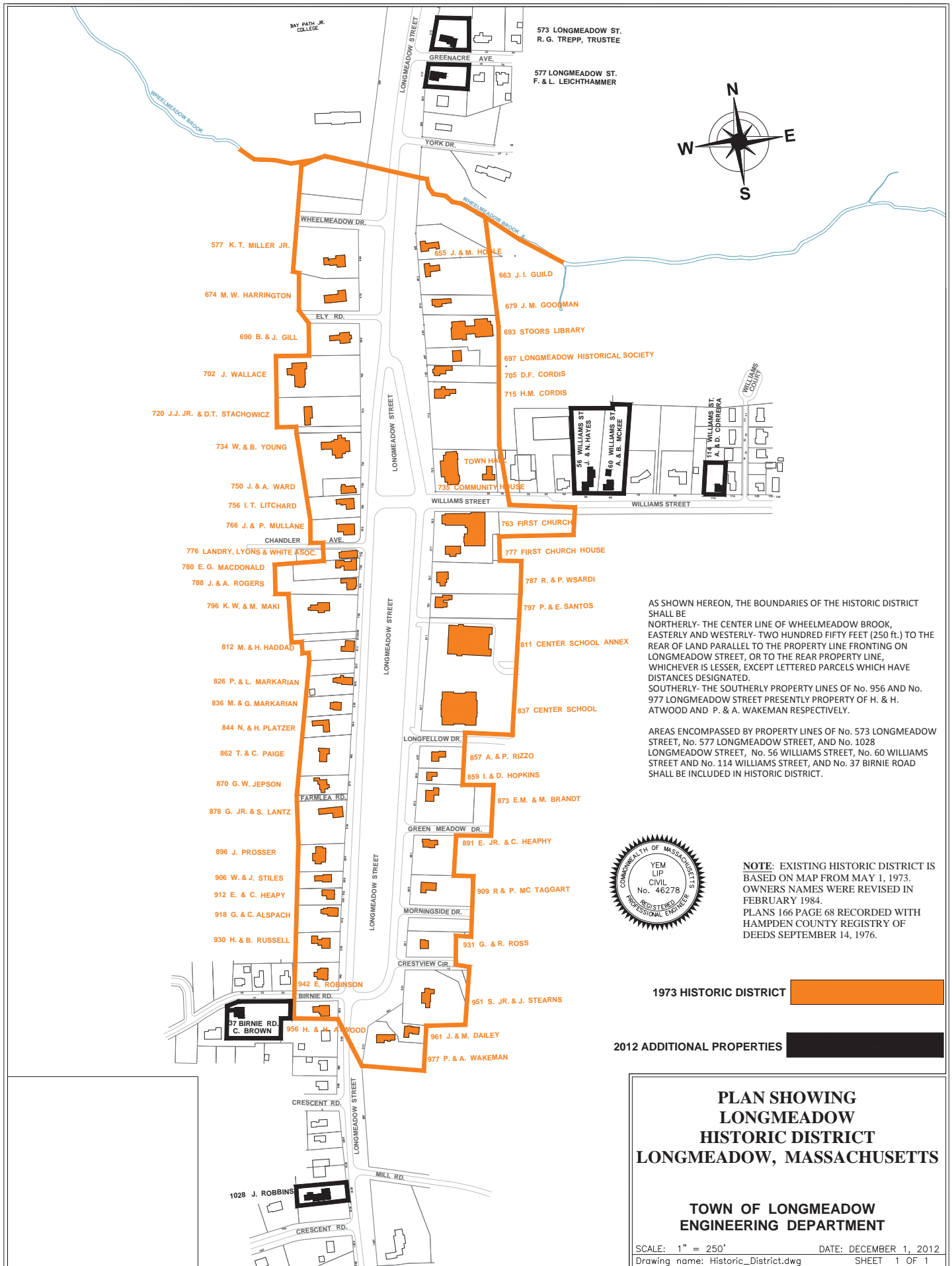
## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.

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## **Appendix D**

### **Historic Properties Eligibility Criteria Documentation**



AS SHOWN HEREON, THE BOUNDARIES OF THE HISTORIC DISTRICT SHALL BE NORTHERLY- THE CENTER LINE OF WHEELMEADOW BROOK, EASTERLY AND WESTERLY- TWO HUNDRED FIFTY FEET (250 ft.) TO THE REAR OF LAND PARALLEL TO THE PROPERTY LINE FRONTING ON LONGMEADOW STREET, OR TO THE REAR PROPERTY LINE, WHICHEVER IS LESSER, EXCEPT LETTERED PARCELS WHICH HAVE DISTANCES DESIGNATED. SOUTHERLY- THE SOUTHERLY PROPERTY LINES OF No. 956 AND No. 977 LONGMEADOW STREET PRESENTLY PROPERTY OF H. & H. ATWOOD AND P. & A. WAKEMAN RESPECTIVELY.

AREAS ENCOMPASSED BY PROPERTY LINES OF No. 573 LONGMEADOW STREET, No. 577 LONGMEADOW STREET, AND No. 1028 LONGMEADOW STREET, No. 56 WILLIAMS STREET, No. 60 WILLIAMS STREET AND No. 114 WILLIAMS STREET, AND No. 37 BIRNIE ROAD SHALL BE INCLUDED IN HISTORIC DISTRICT.



**NOTE:** EXISTING HISTORIC DISTRICT IS BASED ON MAP FROM MAY 1, 1973. OWNERS NAMES WERE REVISED IN FEBRUARY 1984. PLANS 166 PAGE 68 RECORDED WITH HAMPDEN COUNTY REGISTRY OF DEEDS SEPTEMBER 14, 1976.





**The Commonwealth of Massachusetts**  
William Francis Galvin, Secretary of the Commonwealth  
Massachusetts Historical Commission

April 30, 2020

Mario Mazza  
Director  
Longmeadow Public Works  
31 Pondsides Road  
Longmeadow, MA 01106

Attn. Frank Harvey

RE: Town of Longmeadow MS4 Stormwater Discharge, Longmeadow, MA. MHC #RC.67876.

Dear Mr. Mazza:

Thank you for providing the Massachusetts Historical Commission (MHC), office of the State Historic Preservation Officer, with the Project Notification Form (PNF) for the project referenced above.

The project involves renewal of the US Environmental Protection Agency's (EPA) MS4 Stormwater Discharge permit for the Town of Longmeadow. The PNF indicates that there is no construction, demolition, or rehabilitation activities proposed.

Because no construction, demolition, or rehabilitation is proposed, the MHC advises that this project is the type of activity that has no potential to cause effects to historic properties (36 CFR 800.3(a)(1)). No MHC review of the permitting renewal project is required.

These comments are provided to assist in compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (36 CFR 800). If you have questions or require additional information, please contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Edward L. Bell', written over a horizontal line.

Edward L. Bell  
Deputy State Historic Preservation Officer  
Massachusetts Historical Commission

**The Commonwealth of Massachusetts**

William Francis Galvin, Secretary of the Commonwealth  
Massachusetts Historical Commission

**Fax Transmittal Memorandum**

To: Frank Harvey, Longmeadow DPA Fax #: 413-567-9018  
From: Edward L. Bell, MHC Date: 4/30/2020  
Re: Longmeadow MS4 Review Pages, including cover sheet: Two (2)  
MHC#RC. 67876  
Comments: MHC 4/30/2020; copy also by mail

If this communication has been received in error, please notify us immediately.

220 Morrissey Boulevard, Boston, Massachusetts 02125  
Tel: (617) 727-8470 • Fax: (617) 727-5128 • Website: [www.state.ma.us/sec/mhc](http://www.state.ma.us/sec/mhc)

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## **Appendix E**

### Reference Documents

<b><i>Pollutant Impacts on Water Quality</i></b>	
<b><i>Sediment</i></b>	Sediment is a common component of stormwater, and can be a pollutant. Sediment can be detrimental to aquatic life (primary producers, benthic invertebrates, and fish) by interfering with photosynthesis, respiration, growth, reproduction, and oxygen exchange in water bodies. Sediment can transport other pollutants that are attached to it including nutrients, trace metals, and hydrocarbons. Sediment is the primary component of total suspended solids (TSS), a common water quality analytical parameter.
<b><i>Nutrients</i></b>	Nutrients including nitrogen and phosphorous are the major plant nutrients used for fertilizing landscapes, and are often found in stormwater. These nutrients can result in excessive or accelerated growth of vegetation, such as algae, resulting in impaired use of water in lakes and other sources of water supply. For example, nutrients have led to a loss of water clarity in Lake Tahoe. In addition, un-ionized ammonia (one of the nitrogen forms) can be toxic to fish.
<b><i>Bacteria and Viruses</i></b>	Bacteria and viruses are common contaminants of stormwater. For separate storm drain systems, sources of these contaminants include animal excrement and sanitary sewer overflow. High levels of indicator bacteria in stormwater have led to the closure of beaches, lakes, and rivers to contact recreation such as swimming.
<b><i>Oil and Grease</i></b>	Oil and grease includes a wide array of hydrocarbon compounds, some of which are toxic to aquatic organisms at low concentrations. Sources of oil and grease include leakage, spills, cleaning and sloughing associated with vehicle and equipment engines and suspensions, leaking and breaks in hydraulic systems, restaurants, and waste oil disposal.
<b><i>Metals</i></b>	Metals including lead, zinc, cadmium, copper, chromium, and nickel are commonly found in stormwater. Many of the artificial surfaces of the urban environment (e.g., galvanized metal, paint, automobiles, or preserved wood) contain metals, which enter stormwater as the surfaces corrode, flake, dissolve, decay, or leach. Over half the trace metal load carried in stormwater is associated with sediments. Metals are of concern because they are toxic to aquatic organisms, can bioaccumulate (accumulate to toxic levels in aquatic animals such as fish), and have the potential to contaminate drinking water supplies.
<b><i>Organics</i></b>	Organics may be found in stormwater at low concentrations. Often synthetic organic compounds (adhesives, cleaners, sealants, solvents, etc.) are widely applied and may be improperly stored and disposed. In addition, deliberate dumping of these chemicals into storm drains and inlets causes environmental harm to waterways.
<b><i>Pesticides</i></b>	Pesticides (including herbicides, fungicides, rodenticides, and insecticides) have been repeatedly detected in stormwater at toxic levels, even when pesticides have been applied in accordance with label instructions. As pesticide use has increased, so too have concerns about the adverse effects of pesticides on the environment and human health. Accumulation of these compounds in simple aquatic organisms, such as plankton, provides an avenue for biomagnification through the food web, potentially resulting in elevated levels of toxins in organisms that feed on them, such as fish and birds.
<b><i>Gross Pollutants</i></b>	Gross Pollutants (trash, debris and floatables) may include heavy metals, pesticides, and bacteria in stormwater. Typically resulting from an urban environment, industrial sites and construction sites, trash and floatables may create an aesthetic “eye sore” in waterways. Gross pollutants also include plant debris (such as leaves and lawn-clippings from landscape maintenance), animal excrement, street litter, and other organic matter. Such substances may harbor bacteria, viruses, vectors, and depress the dissolved oxygen levels in streams, lakes and estuaries sometimes causing fish kills.
<b><i>Vector Production</i></b>	Vector production (e.g., mosquitoes, flies, and rodents) is frequently associated with sheltered habitats and standing water. Unless designed and maintained properly, standing water may occur in treatment control BMP's for 72 hours or more, thus providing a source for vector habitat and reproduction (Metzger, 2002).

Source: California Stormwater Quality Association, Stormwater BMP Handbook, 2003.

**Potential pollutants likely associated with specific *municipal facilities***

Municipality Facility Activity	Potential Pollutants								
	Sediment	Nutrients	Trash	Metals	Bacteria	Oil & Grease	Organics	Pesticides	Oxygen Demanding Substances
Building and Grounds Maintenance and Repair	X	X	X	X	X	X	X	X	X
Parking/Storage Area Maintenance	X	X	X	X	X	X	X		X
Waste Handling and Disposal	X	X	X	X	X	X	X	X	X
Vehicle and Equipment Fueling			X	X		X	X		
Vehicle and Equipment Maintenance and Repair				X		X	X		
Vehicle and Equipment Washing and Steam Cleaning	X	X	X	X		X	X		
Outdoor Loading and Unloading of Materials	X	X	X	X		X	X	X	X
Outdoor Container Storage of Liquids		X		X		X	X	X	X
Outdoor Storage of Raw Materials	X	X	X			X	X	X	X
Outdoor Process Equipment	X		X	X		X	X		
Overwater Activities			X	X	X	X	X	X	X
Landscape Maintenance	X	X	X		X			X	X
Source: California Stormwater BMP Handbook ( <a href="http://www.cabmphandbooks.com/">http://www.cabmphandbooks.com/</a> )(slightly modified)									

**Potential pollutants likely associated with *municipal activities***

Municipal Program	Activities	Potential Pollutants								
		Sediment	Nutrients	Trash	Metals	Bacteria	Oil & Grease	Organics	Pesticides	Oxygen Demanding Substances
Roads, Streets, and Highways Operation and Maintenance	Sweeping and Cleaning	X		X	X		X			X
	Street Repair, Maintenance, and Striping/Painting	X		X	X		X	X		
	Bridge and Structure Maintenance	X		X	X		X	X		
Plaza, Sidewalk, and Parking Lot Maintenance and Cleaning	Surface Cleaning	X	X			X	X			X
	Graffiti Cleaning	X	X		X			X		
	Sidewalk Repair	X		X						
	Controlling Litter	X		X		X	X			X
Fountains, Pools, Lakes, and Lagoons Maintenance	Fountain and Pool Draining		X					X		
	Lake and Lagoon Maintenance	X	X	X		X			X	X
Landscape Maintenance	Mowing/Trimming/Planting	X	X	X		X			X	X
	Fertilizer & Pesticide Management	X	X						X	
	Managing Landscape Wastes			X					X	X
	Erosion Control	X	X							
Drainage System Operation and Maintenance	Inspection and Cleaning of Stormwater Conveyance Structures	X	X	X		X		X		X
	Controlling Illicit Connections and Discharges	X	X	X	X	X	X	X	X	X
	Controlling Illegal Dumping	X	X	X	X	X	X	X	X	X
	Maintenance of Inlet and Outlet Structures	X		X	X		X			X
Waste Handling and Disposal	Solid Waste Collection		X	X	X	X	X	X		X
	Waste Reduction and Recycling			X	X					X
	Household Hazardous Waste Collection			X	X		X	X	X	
	Controlling Litter			X	X	X		X		X
	Controlling Illegal Dumping	X		X		X	X		X	X
Water and Sewer Utility Operation and Maintenance	Water Line Maintenance	X				X	X			
	Sanitary Sewer Maintenance	X				X	X			X
	Spill/Leak/Overflow Control, Response, and Containment	X	X			X		X		X
Source: California Stormwater BMP Handbook ( <a href="http://www.cabmphandbooks.com/">http://www.cabmphandbooks.com/</a> )										

# IDDE Implementation Timeline

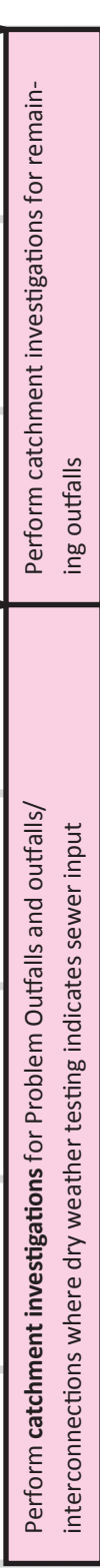
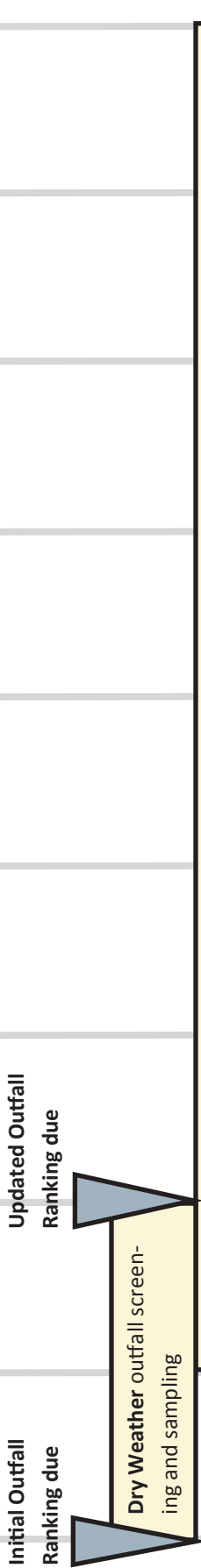
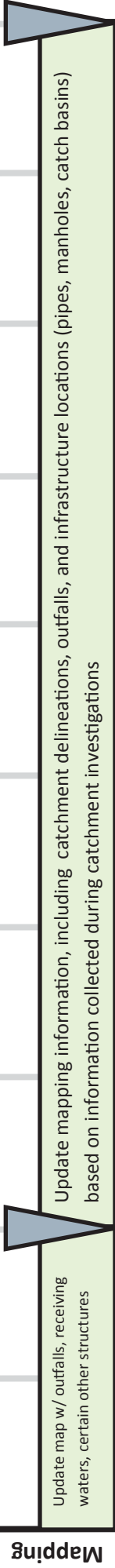
Effective  
Date

1 yr 2 yr 3 yr 4 yr 5 yr 6 yr 7 yr 8 yr 9 yr 10 yr



Phase I map due

Phase II map due



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## **Appendix F**

### **Recordkeeping**

(Note: Recordkeeping for this SWPM may include other project-specific files maintained by the Engineering Division.)



[This Appendix has intentionally been left blank for on-line posting.]


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## **Appendix G**

### **Plan Amendment Log**



## Appendix G Plan Amendment Log

Amendment Number	Description of Amendment(s)	Date of Amendment	Amendment Prepared by (Name/Signature)
1	SWMP amended to reflect changes in personnel in Town of Longmeadow including members of the Stormwater Management Program Team. Additional revisions and updates to Minimum Control Measures and Best Management Practices. Edits and revisions to Section 4 regarding TMDLs and impaired waters and elsewhere throughout document . Overall SWMP re-formatting.	August 6, 2020	 Timothy F Keane, P.E., LSP Town Engineer
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4			
5			

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## **Appendix H**

### **Delegation of Authority Documentation**

April 29, 2020

U.S. Environmental Protection Agency  
5 Post Office Square, Suite 100 (OEP06-1) Boston,  
MA 02109-3912

Re: NPDES MA Small MS4 General Permit  
Delegating an "Authorized Representative"

To whom it may concern,

This letter serves to designate the Town of Longmeadow **Town Manager** and **Director of the Department of Public Works** as authorized persons for signing the Stormwater Management Plan (SWMP), stormwater pollution prevention plans (SWPPPs), inspection reports, annual reports, monitoring reports, reports on training, and other information required under the General Permit.

By signing this authorization, I confirm that the Town Manager meets the following requirements to make such a designation as set forth in Appendix B, Subparagraph 11 of the Small MS4 General Permit:

*For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).*

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,



Lyn N. Simmons  
Town Manager